DOCUMENT RESUME

ED 093 298 88 IR 000 781

TITLE	Education for Survival. A Project Under Title II Elementary and Secondary Education Act of 1965 for Fiscal Year 1973, School Year 1973-1974.
INSTITUTION	Westminister School District 50, Colo.
SPONS AGENCY	Bureau of Elementary and Secondary Education (DHEW/OE), Washington, D.C.
PUB DATE	Sep 73
NOTE	420p.
EDRS PRICE	MF-$0.75 HC-$19.80 PLUS POSTAGE
DESCRIPTORS	*Audiovisual Aids; Bookmobiles; *Catalogs; *Environmental Education; Films; Filmstrips; *Instructional Materials; *Library Collections; Mobile Classrooms; Program Descriptions
IDENTIFIERS	Education For Survival; EFS; Elementary Secondary Education Act Title II; ESEA Title II

ABSTRACT

Education for Survival (EFS) was a project, funded under ESEA Title II, to provide elementary and secondary school teachers in District 50 of Colorado with multimedia materials on environmental education. Materials were stored and delivered to the schools in a mobile educational resources center/classroom (ECO-EMM). The bulk of this document consists of an annotated listing of the instructional media and kits carried in the ECO-EMM. Listing is by call number, with grade level, subject and title indexes, plus a separate title list of 16mm films. The EFS project proposal is appended. (SL)

ED 093298

EDUCATION FOR SURVIVAL

A

PROJECT

UNDER

TITLE II ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965

(Public Law 89-10)
(as amended)

FOR

FISCAL YEAR 1973

SCHOOL YEAR 1973-1974

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION
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Published

by:

School District No. 50
Instructional Materials Center
Westminster, Colorado 80030

September 1973

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IR 000 781

School District No. 50

Adams County

Westminster, Colo. 80030

This project, Education for Survival, is directed toward the students, the teachers, the parents, and the community of School District No. 50. It comes at a time when there is great interest in relating creatively to our technological concerns of the Seventies. We hope the project idea will be an inspiration to other school communities in Colorado as well as the nation.

Iver C. Ranum

IVER C. RANUM
Superintendent of Schools

September, 1973

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7/8/73

SCHOOL	PRINCIPAL	MEDIA PERSONNEL
Baker Elementary School	M. Marshall Summers	Ruth Anderson
Berkeley Gardens Elementary School	William E. Gleason	Josephine Thogode-Ruth McDermott
Francis M. Day Elementary School	Robert E. Proctor	Mildred Ware
Fairview Elementary School	Ray E. Drake	Gene Duester
Gregory Hill Elementary School	George A. Hovorka	Virginia Fox
Harris Park Elementary School	Thomas C. Harris	Alice Walter
Mesa Elementary	Edgar W. Lohrey	Frances Zepin
Clara E. Metz Elementary School	Ernest C. Jabs	Charlotte Wilson
Claude E. Roush Elementary School	William C. Barlow	Donna Blossom
Sherrelwood Elementary School	Donald D. Smith	Joyce Windle
Skyline Vista Elementary School	Harold V. Collingsworth	Doris Fulton-Betty Mueller
Sunset Ridge Elementary School	Joe D. Ratliff	Nancy Coover-Valerie Grant
Tennyson Knolls Elementary School	Earl M. Anderson	Nancy Nehm
Utah Junction Elementary School	William E. Gleason	Josephine Thogode
Vista Grande Elementary School	Arden B. Harms	Donna Smith
Westminster Elementary School	Mary Louise Zarlengo	Gloria Greer
Westminster Hills Elementary School	John R. Austin	Frances Jarigese
M. Scott Carpenter Jr. High School	Larry R. Llewellyn	Bette Tellier, Media Specialist
Clear Lake Jr. High School	James L. Goodbary	Judith Spinney, Media Specialist
J. Hodgkins Jr. High School	Thomas J. Griffiths	Patricia Angell, Media Specialist
Shaw Heights Jr. High School	George D. Schweigert, Jr.	Marilyn Flachman, Media Specialist
Shaw School	William J. Blalack	Karen Welsh, Media Specialist
Iver C. Ranum High School	Frederick J. Jarigese	Frances Morris, Media Specialist
Westminster High School	William J. Glade	Crystal Price, Media Specialist Nina King, Media Specialist Joan Ricco, Media Specialist
PRIVATE SCHOOLS		
Belleview Preparatory School	Ralph Friedly	Teachers of the Public and Private Schools located in School District No. 50.
Guardian Angels School	Elizabeth Costello	
Holy Trinity School	Cynthia Haws	
PUBLIC LIBRARY		
Westminster Public Library	Jean Cohen, Librarian	

7/8/73

C O N T E N T S

PAGINATION BY COLOR

PART I — THE RATIONALE

EDUCATION FOR SURVIVAL . . . . . white

PROJECT NETWORK . . . . . white

PART II — THE IMPACT

MEDIA CIRCULATION DISTRIBUTION . . . . . white

MEDIA INDEXED BY GRADE LEVEL . . . . . yellow

MEDIA INDEXED BY SUBJECT . . . . . green

MEDIA INDEXED BY TITLE . . . . . pink

MOTION PICTURE INDEX . . . . . blue

MEDIA INDEXED WITH DESCRIPTIVE CATALOGING . . . . . white

PART III — THE APPENDIX

PROJECT PROPOSAL --- SPECIAL . . . . . yellow

PROJECT PROPOSAL --- BASIC . . . . . green

EVALUATION INSTRUMENT MODEL . . . . . white

WELCOME TO EFS! --- Education For Survival

What is EFS (pronounced IF'S)?

It is - - -

--- an aid to Environmental Education which is a multi-disciplinary concept in education that is woven into all aspects of the curriculum.

--- a source of a variety of multi-media materials with K-12 emphasis.

--- designed to help the teacher achieve desired objectives at all levels of learning, cognitive, affective, and psychomotor.

--- for all of the teachers in District 50 to use with all the learners in District 50 in a variety of innovative and creative educational experiences.

--- housed on the ECO-EMM (Educational Media Mobile) which will come to your school this year.

Suggestions for use of EFS:

You might like to - - -

--- establish an Environmental Education Committee in your school -- to include teachers, students, and parents -- to give overall direction to your program.

--- refer to the guides and resources available in the project for helpful suggestions.

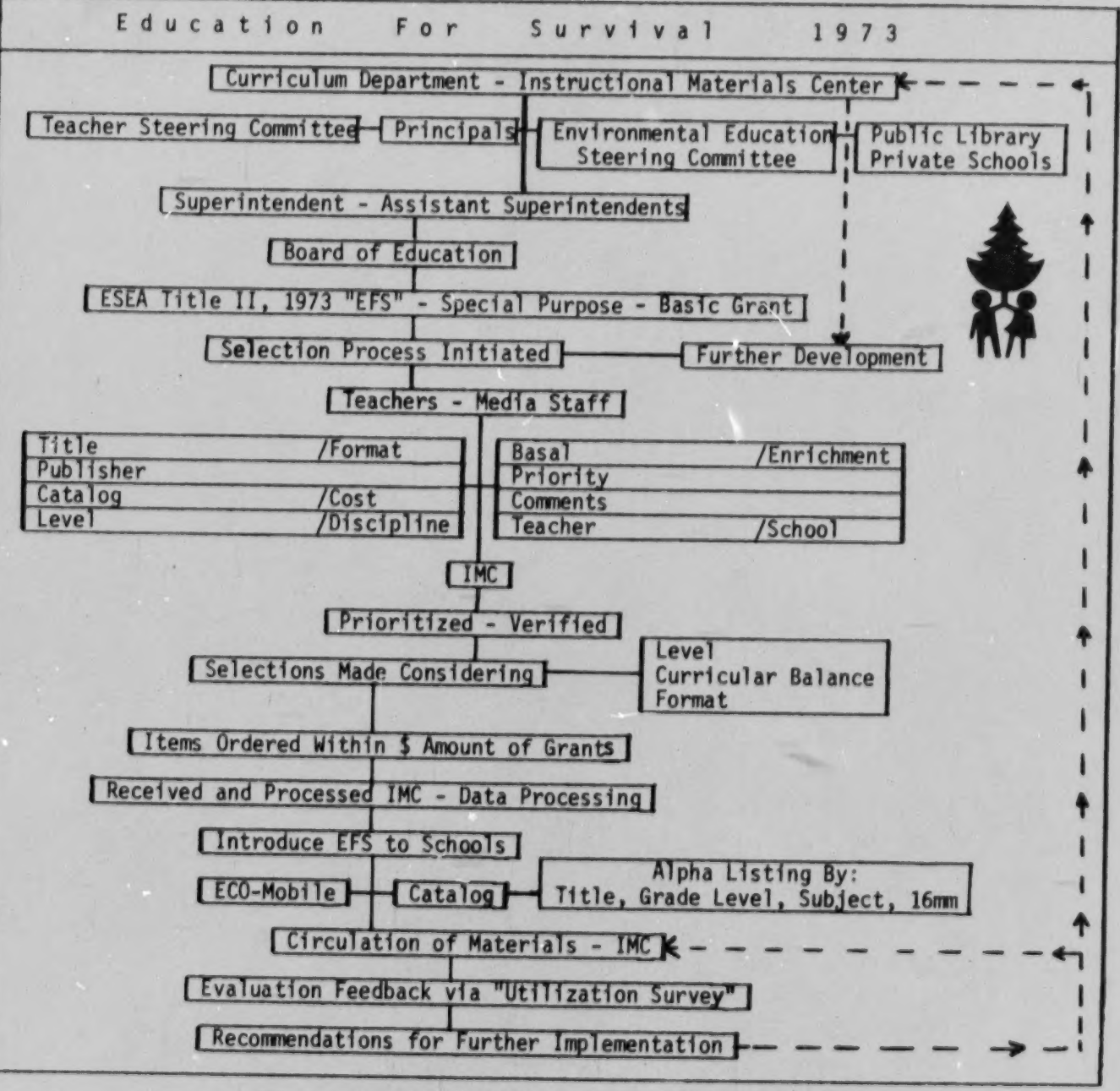
--- use your own creativity -- the heart of the lesson will come from the interaction between you and your learners, after the projector is turned off.

--- enjoy your second classroom outside your door.

--- designate an ecology awareness week or month at your school.

--- identify an ecology project to involve your class or school.

STEPS	EVENTS & TIME FRAME
1	PROJECT DEVELOPMENT 2-73
2	PROJECT APPROVAL 2-73
3	PROJECT SUBMITTED 3-73
4	PROJECT FUNDED 4-73
5	MATERIALS SELECTED 5-73
6	PROJECT ENCUMBERED 6-73
7	PROCESSING 7-73 + 8-73
8	IMPLEMENTATION 9-73 + 5-74
9	PROJECT CONTINUATION



ECO-EMM-EFS

ONE DAY OVERVIEW AT YOUR SCHOOL
FY 1973 - 1974

SEPTEMBER

11 - Scott Carpenter Junior High

12 - Clear Lake Junior High

13 - Josephine Hodgkins Junior High

14 - Shaw Heights Junior High and Shaw School

17 - Ranum High

18 - Westminster High

20 - Utah Junction Elementary

21 - Tennyson Knolls Elementary

24 - Baker Elementary and Hodgkins Primary

25 - Gregory Hill Elementary and Shaw Primary

26 - Francis M. Day Elementary

27 - Fairview Elementary

28 - Sherrelwood Elementary

OCTOBER

1 - Skyline Vista Elementary

2 - Westminster Elementary and Orchard Court

3 - Berkeley Gardens Elementary

4 - Holy Trinity Catholic School

5 - Guardian Angels Catholic School

8 - Belleview

9 - Claude E. Roush Elementary

10 - Sunset Ridge Elementary

11 - Harris Park Elementary

12 - Westminster Hills Elementary

15 - Vista Grande Elementary

16 - Mesa Elementary

17 - Clara E. Metz Elementary

SCHOOL YEAR CALENDAR 1973-1974

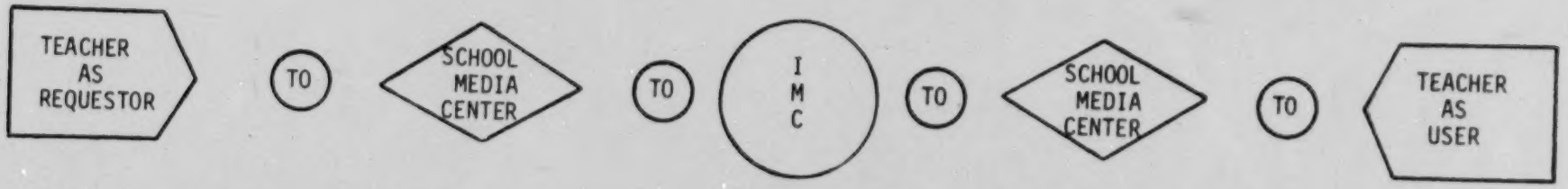
The travel schedule for ECO-EMM will be released to you before the end of September 1973.

All materials listed in the index pages of this booklet will be available on board ECO-EMM for use during the three/four day scheduled visit. The travel lab and its contents may be utilized on location as planned by the school personnel.

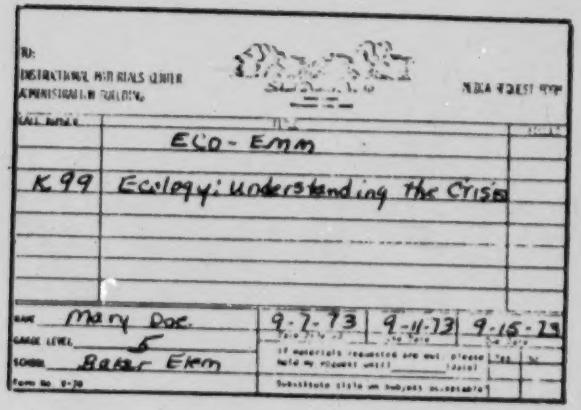
At the close of the visit, all materials must be on board to be available for the next scheduled school location.

When the 1973-74 calendar indicates that the ECO-EMM is on location at an elementary school, the secondary teachers via the school media personnel may initiate a written request for a short term loan of materials cited in the Grade Level sections of the index 7-9 and 10-12.

Accordingly, the elementary teachers may, via school media personnel, request K-6 materials when the travel schedule indicates the ECO-EMM is serving the secondary schools.



The V-70 Media Request Form is to be used.


ECO-EMM
K99 Ecology: Understanding the Crisis
Mary Doe
9-7-73 | 9-11-73 | 9-15-73
Baker Elem

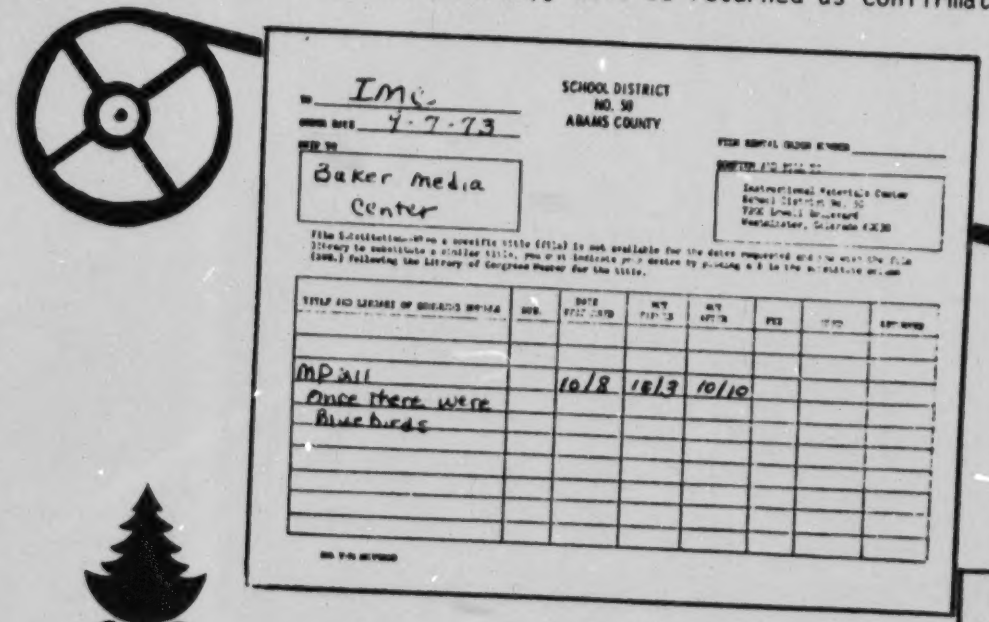
Mark all orders with ECO-EMM. Be sure to include call number and title.

Please do not combine orders for IMC materials listed in the card files located in your media center with materials indexed as ECO-EMM, Education for Survival materials.

The regular school district mail service via IMC will serve as courier for orders in and out.

16mm Film Program

The school media personnel are expected to submit requests for films indicating the teachers' choices direct to the District IMC film booking clerk. The V-71 Order Form must be used. Forward three copies (white, blue, and pink) to IMC. The pink copy will be returned as confirmation.



To IMC.
Order Date 4-7-73
Ship To Baker Media Center

SCHOOL DISTRICT NO. 50 ADAMS COUNTY

Instructional Materials Center
School District No. 50
7201 Lowell Boulevard
Westminster, Colorado 80030

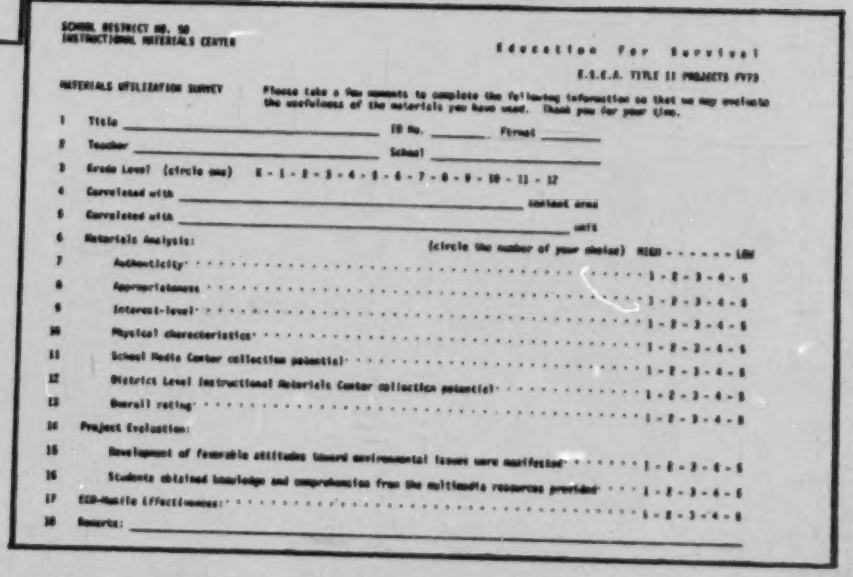
Title and License of Broadcast Series	Qty.	Date First Used	Key Pupils	Key Adults	Fee		Key Words
MP Sill Once there were Bluebirds		10/8	16/3	10/10			

All ECO-EMM materials are to be evaluated.

The blanks are available via your school media center.

The evaluation is to be completed and returned with the item evaluated.

The school media center is to forward the evaluation to IMC.



SCHOOL DISTRICT NO. 50
INSTRUCTIONAL MATERIALS CENTER

Education for Survival

E.S.E.A. TITLE II PROJECTS FY73

MATERIALS UTILIZATION SURVEY — Please take a few moments to complete the following information so that we may evaluate the usefulness of the materials you have used. Thank you for your time.

1 Title _____ ID No. _____ Format _____
2 Teacher _____ School _____
3 Grade Level (circle one) K - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12
4 Correlated with _____ content area
5 Correlated with _____ unit
6 Materials Analysis: (circle the number of your choice) HIGH . . . . . LOW
7 Authenticity . . . . . 1 - 2 - 3 - 4 - 5
8 Appropriateness . . . . . 1 - 2 - 3 - 4 - 5
9 Interest-level . . . . . 1 - 2 - 3 - 4 - 5
10 Physical characteristics . . . . . 1 - 2 - 3 - 4 - 5
11 School Media Center collection potential . . . . . 1 - 2 - 3 - 4 - 5
12 District Level Instructional Materials Center collection potential . . . . . 1 - 2 - 3 - 4 - 5
13 Overall rating . . . . . 1 - 2 - 3 - 4 - 5
14 Project Evaluation:
15 Development of favorable attitudes toward environmental issues were manifested . . . . . 1 - 2 - 3 - 4 - 5
16 Students obtained knowledge and comprehension from the multimedia resources provided . . . . 1 - 2 - 3 - 4 - 5
17 ECO-Media Effectiveness: . . . . . 1 - 2 - 3 - 4 - 5
18 Remarks: _____

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KINDERGARTEN--THIRD

SUBJECT	TITLE	CALL NUMBER	AUTHOR
ADAPTATION (BIOLOGY)	ADVENTURES IN NATURE	FS 1	
	ECOLOGY OF A PARK	K 166	
	ECOLOGY OF A STREET	K 165	
	TREE MAN: A FIRST ADVENTURE IN ECOLOGY	K 12	
AIR	TRUE BOOK PHYSICAL SCIENCE	FS 190	
AIR--POLLUTION	ECOLOGY OF A STREET	K 165	
	POLLUTION OF THE ATMOSPHERE	K 162	
	UNDERSTANDING AIR POLLUTION	T 319	
AIR--POLLUTION--PHYSIOLOGICAL EFFECTS	UNDERSTANDING AIR POLLUTION	T 319	
AMPHIBIANS	DIFFERENT KINDS OF ANIMALS	FS 157	
ANATOMY	TRUE BOOK BIOLOGICAL SCIENCE	FS 195	
ANIMALS	ANIMAL BOX	K 355	
	TRUE BOOK NATURAL SCIENCE	FS 191	
ANIMALS--HABITATIONS	OUR ANIMAL FRIENDS	K 237	
ANIMALS--HABITS AND BEHAVIOR	ANIMAL BOX	K 355	
	ANIMAL WORLD SERIES	FS 198	
	ANIMALS OF THE FOREST	FS 156	
	DIFFERENT KINDS OF ANIMALS	FS 157	
	ECOLOGY OF A PARK	K 166	
	FAMILIAR ANIMALS AND THEIR FAMILIES	FS 189	
	INTRODUCING ANIMALS	PI 170	
	OUR ANIMAL FRIENDS	K 237	
	WHY ANIMALS LIVE WHERE THEY DO	K 69	
	ZOO AND WILD ANIMALS	K 315	
ARTS AND CRAFTS	JUNIOR MUSEUM SERIES	K 60	
ASTRONOMY	NATURE STUDY	K 69	
AUTUMN	FOUR SEASONS	FS 158	
BEHAVIOR	BUT IT ISN'T YOURS	K 144	
	GETTING ALONG	K 179	
	THAT'S NO FAIR!	K 145	
	TROUBLE WITH TRUTH	K 147	
	WHAT DO YOU DO ABOUT RULES?	K 143	
	WHO AM I	K 180	
	YOU PROMISED!	K 146	
BIOLOGY	ECOLOGY OF A PARK	K 166	
	ELEMENTARY SCIENCE PROJECTUALS, SET 1	TR 288	

SUBJECT	TITLE	CALL NUMBER	AUTHOR
BIOLOGY	ELEMENTARY SCIENCE PROJECTUALS, SET 2	TR 289	
	ELEMENTARY SCIENCE PROJECTUALS, SET 3	TR 290	
BIRDS	BIRD STUDY	FS 188	
	DIFFERENT KINDS OF ANIMALS	FS 157	
	TRUE BOOK NATURAL SCIENCE	FS 191	
BIRDS--HABITS AND BEHAVIOR	BIRD STUDY	FS 188	
BOTANY	ELEMENTARY SCIENCE PROJECTUALS, SET 3	TR 290	
	NATURE STUDY	K 64	
BUTTERFLIES	INTRODUCING ANIMALS	PI 170	
COLOR SENSE	VISION AND ENVIRONMENT: A WORLD OF COLOR	K 55	
COLOR--PSYCHOLOGY	VISION AND ENVIRONMENT: A WORLD OF COLOR	K 55	
CONSERVATION OF NATURAL RESOURCES	CLEAN UP	QA 183	
	CONSERVATION FOR BEGINNERS	FS 186	
	ECOLOGY AND YOU	K 118	
COUNTRY LIFE	LIFE ON THE FARM	K 159	
DESERTS	TRUE BOOK PHYSICAL SCIENCE	FS 190	
DINOSAURS	TRUE BOOK BIOLOGICAL SCIENCE	FS 195	
DOMESTIC ANIMALS	LIFE ON THE FARM	K 159	
	TRUE BOOK BIOLOGICAL SCIENCE	FS 195	
EARTH	EARTH'S SURFACE	FS 199	
	PRIMARY SCIENCE	FS 154	
ECOLOGY	CONCH SHELL	MP 248	
	DASH MC TRASH AND THE POLLUTION SOLUTION	K 247	
	ECOLOGY AND YOU	K 118	
	ECOLOGY OF THE FOREST	FS 163	
	ENVIRONMENT: EVERYTHING AROUND US	MP 233	
	ONCE THERE WERE BLUEBIRDS	MP 211	
	TREE MAN: A FIRST ADVENTURE IN ECOLOGY	K 12	
FARM LIFE	LIFE ON THE FARM	K 159	
FOREST ECOLOGY	ECOLOGY OF THE FOREST	FS 163	
FORM PERCEPTION	VISION AND ENVIRONMENT: A WORLD OF SHAPES	K 61	
FRESH-WATER ANIMALS	WHY ANIMALS LIVE WHERE THEY DO	K 69	

SUBJECT	TITLE	CALL NUMBER	AUTHOR
FROGS	INTRODUCING ANIMALS	PI 170	
GAMES, EDUCATIONAL	CLEAN UP	GA 183	
	LITTERBUG	GA 142	
GEOLOGY	NATURE STUDY	K 64	
GERMINATION	LEARNING ABOUT PLANTS	FS 302	
HONESTY	TROUBLE WITH TRUTH	K 147	
HUMAN ECOLOGY	AWARENESS OF THE WORLD AROUND YOU, SET 1 & SET 2	K 52	
	MAN AND ENVIRONMENT: A CHANGING RELATIONSHIP	K 53	
HUMAN MECHANICS	MOVEMENT EXPLORATION: WHAT AM I	MP 201	
HUMAN RELATIONS	AWARENESS OF THE WORLD AROUND YOU, SET 1 & SET 2	K 52	
	BUT IT ISN'T YOURS	K 144	
	GETTING ALONG	K 179	
	HOW DO I LEARN?	K 225	
	THAT'S NO FAIR!	K 145	
	TROUBLE WITH TRUTH	K 147	
	WHAT DO YOU DO ABOUT RULES?	K 143	
	WHO AM I	K 180	
	YOU PROMISED!	K 146	
INSECTS	DIFFERENT KINDS OF ANIMALS	FS 157	
	TRUE BOOK NATURAL SCIENCE	FS 191	
LEARNING, PSYCHOLOGY OF	HOW DO I LEARN?	K 225	
MAMMALS	DIFFERENT KINDS OF ANIMALS	FS 157	
MAN--INFLUENCE OF ENVIRONMENT	AWARENESS OF THE WORLD AROUND YOU, SET 1 & SET 2	K 52	
	CLEAN UP	GA 183	
	ECOLOGY AND YOU	K 118	
	ENVIRONMENT: EVERYTHING AROUND US	MP 233	
	MAN AND ENVIRONMENT: A CHANGING RELATIONSHIP	K 53	
	ONCE THERE WERE BLUEBIRDS	MP 211	
	TREE MAN: A FIRST ADVENTURE IN ECOLOGY	K 12	
MAN--INFLUENCE ON NATURE	CONSERVATION FOR BEGINNERS	FS 186	
	WHICH IS MY WORLD?	MP 214	
MARINE ANIMALS	WHY ANIMALS LIVE WHERE THEY DO	K 69	
MARINE ECOLOGY	ECOLOGY OF THE SEA	FS 164	
MENSURATION	ELEMENTARY SCIENCE PROJECTUALS, SET 2	TR 289	

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SUBJECT	TITLE	CALL NUMBER	AUTHOR
MOTION	MOVEMENT EXPLORATION: WHAT AM I	MP 201	
NATURAL HISTORY	ANIMAL WORLD SERIES	FS 198	
NATURAL RESOURCES	ADVENTURES IN NATURE	FS 1	
NATURE CONSERVATION	CONSERVATION FOR BEGINNERS	FS 186	
NATURE PHOTOGRAPHY	ENVIRONMENTAL AWARENESS	K 85	
NATURE STUDY	ANIMALS OF THE FOREST	FS 156	
	CHANGING SEASONS	K 223	
	CONCEPTS IN SCIENCE, BEGINNING LEVEL, YELLOW BIO	PI 90	
	ENVIRONMENTAL AWARENESS	K 85	
	INTRODUCTION TO PLANTS	K 221	
	MAN AND ENVIRONMENT: A CHANGING RELATIONSHIP	K 53	
	WATCH AND WONDER PRIMARY SCIENCE, LEVEL I	K 172	
	WATCH AND WONDER, PRIMARY SCIENCE, LEVEL 2	K 173	
	WATCH AND WONDER, PRIMARY SCIENCE, LEVEL 3	K 174	
OCEAN	ECOLOGY OF THE SEA	FS 164	
PAINTING	JUNIOR MUSEUM SERIES	K 60	
PERCEPTION	ELEMENTARY SCIENCE PROJECTUALS, SET 1	TR 289	
	ELEMENTARY SCIENCE PROJECTUALS, SET 2	TR 289	
	MOVEMENT EXPLORATION: WHAT AM I	MP 201	
	MY SENSES AND ME	K 138	
	VISION AND ENVIRONMENT: A WORLD OF SHAPES	K 61	
PESTICIDES AND THE ENVIRONMENT	ONCE THERE WERE BLUEBIRDS	MP 211	
PETS	TRUE BOOK BIOLOGICAL SCIENCE	FS 195	
PLANT PROPAGATION	LEARNING ABOUT PLANTS	FS 302	
PLANTS	INTRODUCTION TO PLANTS	K 221	
	LEARNING ABOUT PLANTS	FS 302	
	NOW YOU KNOW ABOUT PLANTS	K 125	
	TRUE BOOK NATURAL SCIENCE	FS 191	
POLLUTION	DASH MC TRASH AND THE POLLUTION SOLUTION	K 247	
	ECOLOGY OF A STREET	K 165	
	ENVIRONMENT: EVERYTHING AROUND US	MP 233	
	LITTERBUG	OA 142	
	WHICH IS MY WORLD?	MP 214	
REPTILES	DIFFERENT KINDS OF ANIMALS	FS 157	
	TRUE BOOK BIOLOGICAL SCIENCE	FS 195	

SUBJECT	TITLE	CALL NUMBER	AUTHOR
ROCKS	EARTH'S SURFACE	FS 199	
	TRUE BOOK PHYSICAL SCIENCE	FS 190	
SANITATION	LITTERBUG	GA 142	
SCIENCE--EXPERIMENTS	TRUE BOOK SCIENCE EXPERIMENTS	FS 192	
	WATCH AND WONDER PRIMARY SCIENCE, LEVEL I	K 172	
	WATCH AND WONDER, PRIMARY SCIENCE, LEVEL 2	K 173	
	WATCH AND WONDER, PRIMARY SCIENCE, LEVEL 3	K 174	
SCIENCE--STUDY AND TEACHING	CONCEPTS IN SCIENCE, BEGINNING LEVEL, YELLOW BIO	PI 90	
	ELEMENTARY SCIENCE PROJECTUALS, SET 1	TR 288	
	ELEMENTARY SCIENCE PROJECTUALS, SET 2	TR 289	
	ELEMENTARY SCIENCE PROJECTUALS, SET 3	TR 290	
	EXPLORING WITH SCIENCE	K 137	
	PRIMARY SCIENCE	FS 154	
	WATCH AND WONDER PRIMARY SCIENCE, LEVEL I	K 172	
	WATCH AND WONDER, PRIMARY SCIENCE, LEVEL 2	K 173	
	WATCH AND WONDER, PRIMARY SCIENCE, LEVEL 3	K 174	
SCULPTURE	JUNIOR MUSEUM SERIES	K 60	
SEASONS	CHANGING SEASONS	K 223	
	FOUR SEASONS	FS 158	
	PRIMARY SCIENCE	FS 154	
	TRUE BOOK PHYSICAL SCIENCE	FS 190	
SEEDS	LEARNING ABOUT PLANTS	FS 302	
SENSES AND SENSATION	MY SENSES AND ME	K 138	
	VISION AND ENVIRONMENT: A WORLD OF COLOR	K 55	
SHELLS	CONCH SHELL	MP 248	
SIZE AND SHAPE	VISION AND ENVIRONMENT: A WORLD OF SHAPES	K 61	
SOCIAL ADJUSTMENT	HOW DO I LEARN?	K 225	
SOIL	EARTH'S SURFACE	FS 199	
SOLAR SYSTEM	TRUE BOOK PHYSICAL SCIENCE	FS 190	
SPRING	FOUR SEASONS	FS 158	
SUMMER	FOUR SEASONS	FS 158	
TREES	TRUE BOOK NATURAL SCIENCE	FS 191	
TROPICAL FISH	TRUE BOOK BIOLOGICAL SCIENCE	FS 195	

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SUBJECT	TITLE	CALL NUMBER	AUTHOR
TRUTHFULNESS AND FALSEHOOD	TROUBLE WITH TRUTH	K 147	
VALUES	BUT IT ISN'T YOURS	K 144	
	THAT'S NO FAIR!	K 145	
	WHAT DO YOU DO ABOUT RULES?	K 143	
	YOU PROMISED!	K 146	
WATER	EARTH'S SURFACE	FS 199	
	WATER: A FIRST FILM	MP 212	
WATER--POLLUTION	POLLUTION OF THE WATERS	K 161	
	UNDERSTANDING WATER POLLUTION	T 320	
	WATER POLLUTION: A FIRST FILM	MP 213	
WATER--PURIFICATION	UNDERSTANDING WATER POLLUTION	T 320	
WEATHER	PRIMARY SCIENCE	FS 154	
WINTER	FOUR SEASONS	FS 158	
ZOO ANIMALS	ZOO AND WILD ANIMALS	K 315	
ZOOLOGICAL GARDENS	ZOO AND WILD ANIMALS	K 315	
ZOOLOGY	NATURE STUDY	K 64	

FOURTH--SIXTH

SUBJECT	TITLE	CALL NUMBER	AUTHOR
ADAPTATION (BIOLOGY)	CONCEPTS IN ECOLOGY	K 84	
	ECOLOGICAL COMMUNITIES	K 16	
	INTRODUCING ECOLOGY: DEPENDENCE AND SHARING	MP 204	
	INTRODUCTION TO ECOLOGY: SIX BASIC SYSTEMS	FS 160	
	THIS EARTH: A WORLD OF DIFFERENCES	K 151	
	THIS EARTH: EVERYTHING FITS TOGETHER	K 220	
	THIS EARTH: HOW LIFE ADAPTS	K 149	
AIR	BIOSPHERE	FL 203	
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K 33	EARTH AND THE UNIVERSE, BETA		7-9	OCEANOGRAPHY SCIENCE--STUDY AND TEACHING SOLAR SYSTEM WEATHER
NO 19	EARTH HISTORY		4-6	EXTINCT ANIMALS FOSSILS GEOLOGY
PI 87	EARTH HISTORY		7-9	EARTH--AGE GEOLOGY
K 219	EARTH SCIENCE		7-9	EARTH EARTH--AGE EARTH--INTERNAL STRUCTURE GEOLOGY
PI 88	EARTH SCIENCE		7-9	ANTARCTIC REGIONS ARCTIC REGIONS EARTH GEOLOGY PHYSICAL GEOGRAPHY
TR 25	EARTH SCIENCE		7-9	ASTRONOMY GEOLOGY MAP READING METEOROLOGY OCEANOGRAPHY
FS 196	EARTH'S RESOURCES SERIES		4-6	CONSERVATION OF NATURAL RESOURCES ECOLOGY NATURAL RESOURCES
FS 199	EARTH'S SURFACE		K-3	EARTH ROCKS SOIL WATER
K 16	ECOLOGICAL COMMUNITIES		4-6	ADAPTATION (BIOLOGY)

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CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 16	ECOLOGICAL COMMUNITIES		4-6	ECOLOGY
K 222	ECOLOGICAL CRISES		7-9	ECOLOGY ENVIRONMENTAL POLICY MAN--INFLUENCE ON NATURE POLLUTION
K 94	ECOLOGICAL POPULATIONS AND COMMUNITIES		10-12	ANIMAL POPULATIONS ECOLOGY
K 98	ECOLOGICAL SUCCESSION		10-12	ECOLOGICAL SUCCESSION ECOLOGY
K 106	ECOLOGICAL SYSTEMS, GROUP 1		7-9	DESERT ECOLOGY FOREST ECOLOGY FRESH-WATER ECOLOGY SEASHORE BIOLOGY
QA 101	ECOLOGY		7-9	ECOLOGY GAMES, EDUCATIONAL MAN--INFLUENCE OF ENVIRONMENT
TP 140	ECOLOGY		10-12	ADAPTATION (BIOLOGY) BOTANY--ECOLOGY ECOLOGY
K 114	ECOLOGY AND ENVIRONMENT		4-6	MAN--INFLUENCE OF ENVIRONMENT MAN--INFLUENCE ON NATURE POLLUTION
K 66	ECOLOGY AND MAN, SET 1		7-9	ADAPTATION (BIOLOGY) ANIMALS--HABITATIONS FOOD SUPPLY
K 67	ECOLOGY AND MAN, SET 2		7-9	ADAPTATION (BIOLOGY) ECOLOGY
K 68	ECOLOGY AND MAN, SET 3		7-9	CONSERVATION HUMAN ECOLOGY MAN--INFLUENCE OF ENVIRONMENT NATURAL RESOURCES
K 118	ECOLOGY AND YOU		K-3	CONSERVATION OF NATURAL RESOURCES ECOLOGY MAN--INFLUENCE OF ENVIRONMENT
K 232	ECOLOGY COMBINED		10-12	CHEMICAL APPARATUS CHEMISTRY CHEMISTRY, ANALYTIC
K 107	ECOLOGY OF A DESERT			

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CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 107	ECOLOGY OF A DESERT		4-6	DESERT ANIMALS DESERT ECOLOGY DESERT PLANTS
K 166	ECOLOGY OF A PARK		K-3	ADAPTATION (BIOLOGY) ANIMALS--HABITS AND BEHAVIOR BIOLOGY
K 165	ECOLOGY OF A STREET		K-3	ADAPTATION (BIOLOGY) AIR--POLLUTION POLLUTION
FS 163	ECOLOGY OF THE FOREST		K-3	ECOLOGY FOREST ECOLOGY
FS 164	ECOLOGY OF THE SEA		K-3	MARINE ECOLOGY OCEAN
FS 303	ECOLOGY OF THE URBAN ENVIRONMENT		4-6	AIR--POLLUTION CONSERVATION OF NATURAL RESOURCES HUMAN ECOLOGY MAN--INFLUENCE ON NATURE WATER--POLLUTION
K 226	ECOLOGY PACKAGE		7-9	AIR--POLLUTION CONSERVATION OF NATURAL RESOURCES MAN--INFLUENCE OF ENVIRONMENT POLLUTION WATER--POLLUTION--GREAT LAKES
FS 2	ECOLOGY—INTERDEPENDENCE I		10-12	BIOLOGY COLOR OF ANIMALS MARINE BIOLOGY PROTOPLASM
FS 3	ECOLOGY—INTERDEPENDENCE II		10-12	ANIMAL COMMUNICATION ANIMALS--HABITS AND BEHAVIOR MARINE BIOLOGY
K 347	ECOLOGY—THE SCIENCE OF GOOD EARTHKEEPING		7-9	CONSERVATION OF NATURAL RESOURCES MAN--INFLUENCE OF ENVIRONMENT POLLUTION
NP 235	ECOLOGY: CHECKS AND BALANCES		7-9	BIOLOGY ECOLOGY
K 99	ECOLOGY: UNDERSTANDING THE CRISES		7-9	CONSERVATION OF NATURAL RESOURCES ECOLOGY MAN--INFLUENCE OF ENVIRONMENT
K 8	ECOLOGY: WATER POLLUTION INVESTIGATIONS		7-9	ECOLOGY

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 8	ECOLOGY: WATER POLLUTION INVESTIGATIONS		7-9	POLLUTION WATER--POLLUTION--EXPERIMENTS
K 116	ECONOMICS OF POLLUTION		7-9	ECONOMIC CONDITIONS ENVIRONMENTAL POLICY POLLUTION
K 115	ECONOMY VERSUS ECOLOGY		7-9	ECOLOGY POLLUTION
TR 288	ELEMENTARY SCIENCE PROJECTUALS. SET 1		K-3	BIOLOGY PERCEPTION SCIENCE--STUDY AND TEACHING
TR 289	ELEMENTARY SCIENCE PROJECTUALS. SET 2		K-3	BIOLOGY MENSURATION PERCEPTION SCIENCE--STUDY AND TEACHING
TR 290	ELEMENTARY SCIENCE PROJECTUALS. SET 3		K-3	BIOLOGY BOTANY SCIENCE--STUDY AND TEACHING
TR 291	ELEMENTARY SCIENCE PROJECTUALS. SET 4		4-6	BIOLOGY BOTANY SCIENCE--STUDY AND TEACHING
TR 292	ELEMENTARY SCIENCE PROJECTUALS. SET 5		4-6	BOTANY CHEMISTRY SCIENCE--STUDY AND TEACHING
TR 293	ELEMENTARY SCIENCE PROJECTUALS. SET 6		4-6	BIOLOGY SCIENCE--STUDY AND TEACHING SOLAR SYSTEM
K 110	EMBATTLED METROPOLIS		4-6	CITIES AND TOWNS--U.S. METROPOLITAN AREAS--U.S. METROPOLITAN GOVERNMENT--U.S. U.S.--ECONOMIC CONDITIONS U.S.--SOCIAL CONDITIONS
MP 209	END OF ONE		10-12	MAN--INFLUENCE OF ENVIRONMENT POLLUTION
K 126	ENERGY CRISIS		4-6	CONSERVATION OF NATURAL RESOURCES NATURAL RESOURCES POWER RESOURCES
FL 358	ENERGY FOR THE CITY		10-12	ELECTRICITY FUEL

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
MP 262	ENERGY TO BURN		10-12	CONSERVATION OF NATURAL RESOURCES FUEL POWER RESOURCES
K 121	ENVIRONMENT: CHANGING MAN'S VALUES		10-12	MAN--INFLUENCE OF ENVIRONMENT
MP 233	ENVIRONMENT: EVERYTHING AROUND US		K-3	ECOLOGY MAN--INFLUENCE OF ENVIRONMENT POLLUTION
K 85	ENVIRONMENTAL AWARENESS		K-3	NATURE PHOTOGRAPHY NATURE STUDY
K 352	ENVIRONMENTAL CRISES, SET 1		7-9	ECOLOGY POLLUTION POPULATION
K 353	ENVIRONMENTAL CRISES, SET 2		7-9	AIR--POLLUTION ECONOMIC CONDITIONS POLLUTION SALVAGE (WASTE, ETC.)
K 354	ENVIRONMENTAL CRISES, SET 3		7-9	FACTORY AND TRADE WASTE NOISE--POLLUTION POLLUTION WATER--POLLUTION
K 5	ENVIRONMENTAL ED DO-IT CARDS FOR EARTH&PHYSICAL		7-9	HUMAN ECOLOGY MAN--INFLUENCE OF ENVIRONMENT POLLUTION
K 83	ENVIRONMENTAL MATHEMATICS		7-9	ECOLOGY ENVIRONMENTAL POLICY MATHEMATICS
K 346	ENVIRONMENTAL SCIENCE: ECOLOGY, SET A		4-6	CONSERVATION OF NATURAL RESOURCES MAN--INFLUENCE OF ENVIRONMENT POLLUTION
K 234	ENVIRONMENTAL SCIENCE: POLLUTION, SET B		4-6	AIR--POLLUTION MAN--INFLUENCE OF ENVIRONMENT POLLUTION WATER--POLLUTION
K 100	ENVIRONMENTAL STUDIES		7-9	ECOLOGY EMOTIONS HUMAN RELATIONS
K 20	ENVIRONMENTAL STUDIES SERIES		4-6	AIR--POLLUTION NOISE--POLLUTION

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 20	ENVIRONMENTAL STUDIES SERIES		4-6	PESTICIDES AND THE ENVIRONMENT POLLUTION WATER--POLLUTION
K 48	EXCRETORY SYSTEMS		10-12	ANATOMY, COMPARATIVE ANIMALS ZOOLOGY
K 136	EXPERIMENTS IN ELEMENTARY SCIENCE		4-6	SCIENCE--EXPERIMENTS SCIENCE--STUDY AND TEACHING
K 348	EXPLORING THE WORLD OF MAPS		4-6	MAP DRAWING MAPS
FS 193	EXPLORING THE WORLD OF NATURE, GROUP 1		7-9	ADAPTATION (BIOLOGY) ANIMALS--HABITS AND BEHAVIOR GEOGRAPHICAL DISTRIBUTION OF ANIMALS&PL
FS 194	EXPLORING THE WORLD OF NATURE, GROUP 2		4-6	ANIMALS--HABITS AND BEHAVIOR GEOGRAPHICAL DISTRIBUTION OF ANIMALS&PL PLANTS
K 137	EXPLORING WITH SCIENCE		K-3	SCIENCE--STUDY AND TEACHING
FS 189	FAMILIAR ANIMALS AND THEIR FAMILIES		K-3	ANIMALS--HABITS AND BEHAVIOR
K 227	FIELD TRIPS FOR FUN AND FACTS		4-6	MUSEUMS ZOOS
FC 101	FISHES		4-6	FISHES
FL 332	FISHING AT THE STONE WEIR, PART 1		4-6	ARCTIC REGIONS ESKIMOS ESKIMOS--SOCIAL LIFE AND CUSTOMS FISHING
FL 333	FISHING AT THE STONE WEIR, PART 2		4-6	ARCTIC REGIONS ESKIMOS ESKIMOS--SOCIAL LIFE AND CUSTOMS FISHING
K 97	FOOD WEBS AND PYRAMIDS		10-12	ECOLOGY FOOD CHAINS
158	FOUR SEASONS		K-3	AUTUMN

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FS 158	FOUR SEASONS		K-3	SEASONS SPRING SUMMER WINTER
K 139	FUTURE: CAN WE SHAPE IT?		10-12	FUTURE LIFE MAN--INFLUENCE OF ENVIRONMENT
MP 249	GARBAGE		7-9	ECOLOGY MAN--INFLUENCE OF ENVIRONMENT REFUSE AND REFUSE DISPOSAL
FL 282	GARBAGE DUMPS		10-12	ECOLOGY REFUSE AND REFUSE DISPOSAL
MP 225	GARBAGE EXPLOSION		10-12	POLLUTION REFUSE AND REFUSE DISPOSAL
K 179	GETTING ALONG		K-3	BEHAVIOR HUMAN RELATIONS
FL 286	GLASSMAKING AT JAMESTOWN		7-9	FRONTIER AND PIONEER LIFE GLASS BLOWING AND WORKING
MP 210	GREAT SEA FARM		7-9	MARINE BIOLOGY MARINE ECOLOGY MARINE RESOURCES
FL 266	HARVESTING BY HAND		10-12	FRONTIER AND PIONEER LIFE HARVESTING
FL 265	HARVESTING-THE FIRST MACHINES		10-12	FRONTIER AND PIONEER LIFE HARVESTING MACHINERY
FL 322	HERRING GULL BEHAVIOR		4-6	BIRDS--HABITS AND BEHAVIOR GULLS WATER BIRDS
K 225	HOW DO I LEARN?		K-3	HUMAN RELATIONS LEARNING, PSYCHOLOGY OF SOCIAL ADJUSTMENT
K 31	HOW DO YOU READ YOUR WORLD		4-6	HUMAN ECOLOGY HUMAN RELATIONS MAN--INFLUENCE OF ENVIRONMENT
C 41	HUMAN DEVELOPMENT BEFORE BIRTH		4-6	REPRODUCTION SEX EDUCATION
C 40	HUMAN REPRODUCTIVE SYSTEM		4-6	REPRODUCTION

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
C 40	HUMAN REPRODUCTIVE SYSTEM		4-6	SEX EDUCATION
K 153	HYDROPONICS KIT-GROW PLANTS WITHOUT SOIL		4-6	GROWTH (PLANTS) PLANTS PLANTS—SOILLESS CULTURE
SP 295	IGNEOUS ROCKS		7-9	GEOLOGY MINERALOGY ROCKS
K 109	IMPERIALISM		10-12	MILITARISM POLITICAL SCIENCE SOCIAL SCIENCES
K 17	IMPRESSIONS. VOL. 1		4-6	COMMUNICATION PERCEPTION
K 18	IMPRESSIONS. VOL. 2		4-6	COMMUNICATION PERCEPTION
FL 285	INDIANS OF ORINOCO JUNGLE: BUILDING A DUG-OUT		10-12	CANOES AND CANOEING INDIANS OF SOUTH AMERICA—BOATS INDIANS OF SOUTH AMERICA—ORINOCO, VALLEY
K 10	INDIANS VS. THE GIANT UTILITIES		4-6	ENVIRONMENTAL POLICY PUBLIC UTILITIES TITLE: BLACK MESA WATER--POLLUTION
FL 264	INPUT AND OUTPUT: PRODUCING A PRODUCT		10-12	ECONOMIC CONDITIONS ECONOMICS
K 54	INQUIRY INTO THE NATURE OF MAN		7-9	BEHAVIOR HUMAN RELATIONS SOCIAL PSYCHOLOGY
FC 104	INSECTS		4-6	INSECTS
K 244	INSECTS		7-9	BUTTERFLIES INSECTS MOTHS
PI 170	INTRODUCING ANIMALS		K-3	ANIMALS--HABITS AND BEHAVIOR BUTTERFLIES FROGS
MP 204	INTRODUCING ECOLOGY: DEPENDENCE AND SHARING		4-6	ADAPTATION (BIOLOGY) ECOLOGY GEOGRAPHICAL DISTRIBUTION OF ANIMALS&PL
FS 160	INTRODUCTION TO ECOLOGY: SIX BASIC SYSTEMS		4-6	ADAPTATION (BIOLOGY)

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FS 160	INTRODUCTION TO ECOLOGY: SIX BASIC SYSTEMS		4-6	ECOLOGY
K 221	INTRODUCTION TO PLANTS		K-3	NATURE STUDY PLANTS
FS 4	INTRODUCTION TO THE METRIC SYSTEM		7-9	MATHEMATICS METRIC SYSTEM WEIGHTS AND MEASURES
K 82	INVESTIGATING AIR, LAND, AND WATER POLLUTION		7-9	HUMAN ECOLOGY MAN--INFLUENCE OF ENVIRONMENT WATER--POLLUTION
K 75	INVESTIGATIONS IN ECOLOGY		7-8	ECOLOGY HUMAN ECOLOGY MAN--INFLUENCE OF ENVIRONMENT
K 81	INVESTIGATIONS IN SCIENCE: EARTH SCIENCE		7-9	NATURAL RESOURCES SOIL CONSERVATION SOILS
K 236	JOHN JAMES AUDUBON: ARTIST, SCIENTIST, PIONEER		4-6	AUDUBON, JOHN JAMES 1785-1851 BIRDS
MP 244	JOURNEY INTO SUMMER, PT 1		10-12	ECOLOGY MAN--INFLUENCE ON NATURE NATURE STUDY SUMMER
MP 245	JOURNEY INTO SUMMER, PT 2		10-12	
K 60	JUNIOR MUSEUM SERIES		K-3	ARTS AND CRAFTS PAINTING SCULPTURE
K 349	KINGDOM OF THE ANIMALS		7-9	ANIMALS--HABITS AND BEHAVIOR CHIMPANZEES INSECTS REPTILES
FL 334	KNUD		4-6	ARCTIC REGIONS ESKIMOS RASMUSSEN, KNUD JOHAN VICTOR, 1879-1933
K 14	LEARNING ABOUT CONSERVATION		4-6	CONSERVATION OF NATURAL RESOURCES ENVIRONMENTAL POLICY NATURAL RESOURCES
FS 302	LEARNING ABOUT PLANTS		K-3	GERMINATION PLANT PROPAGATION

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FS 302	LEARNING ABOUT PLANTS		K-3	PLANTS SEEDS
FL 281	LEAVING THE EARTH		10-12	APOLLO PROJECT SPACE FLIGHT TO THE MOON
FL 342	LEGEND OF THE RAVEN		4-6	ARCTIC REGIONS ESKIMOS FOLKLORE, ESKIMO
K 148	LET'S DISCOVER		4-6	ECOLOGY GERMINATION PLANTS
FL 321	LIFE CYCLE OF THE SALMON		4-6	FISHES--HABITS AND BEHAVIOR SALMON
C 27	LIFE HISTORY AND HABITAT STUDY CHARTS		4-6	ANIMALS--HABITS AND BEHAVIOR COLOR OF ANIMALS NATURE STUDY PLANTS
K 159	LIFE ON THE FARM		K-3	COUNTRY LIFE DOMESTIC ANIMALS FARM LIFE
FL 341	LIFE ON THE TUNDRA		4-6	ANIMALS--HABITS AND BEHAVIOR ARCTIC REGIONS TUNDRAS
S 308	LIFE SCIENCES		10-12	BIOLOGY INSECTS LIFE (BIOLOGY) MICROORGANISMS
K 175	LIMNOLOGY TEST KIT, MODEL AM-02		10-12	WATER--ANALYSIS WATER--POLLUTION
GA 142	LITTERBUG		K-3	GAMES, EDUCATIONAL POLLUTION SANITATION
MP 237	LIVING EARTH		7-9	NATURE STUDY THOREAU, HENRY DAVID, 1817-1862
K 34	LIVING THINGS, ALPHA		7-9	BIRDS INSECTS PLANTS SCIENCE--STUDY AND TEACHING
K 35	LIVING THINGS, BETA		7-9	AMPHIBIANS

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 35	LIVING THINGS, BETA		7-9	ANATOMY FISHES MAMMALS REPTILES SCIENCE--STUDY AND TEACHING
MP 202	LORAX		4-6	ECOLOGY NATURAL RESOURCES
FL 263	MAKING CHARCOAL-FUEL FOR EARLY INDUSTRY		10-12	CHARCOAL FRONTIER AND PIONEER LIFE
FC 103	MAMMALS		4-6	MAMMALS
K 71	MAMMALS: FROM THE TINY SHREW TO THE GIANT WHALE		4-6	BEARS KANGAROOS MAMMALS
K 53	MAN AND ENVIRONMENT: A CHANGING RELATIONSHIP		K-3	HUMAN ECOLOGY MAN--INFLUENCE OF ENVIRONMENT NATURE STUDY
K 318	MAN AND HIS ENVIRONMENT		4-6	ECOLOGY MAN--INFLUENCE OF ENVIRONMENT POLLUTION
FL 206	MAN AND LIVING THINGS		4-6	ECOLOGY MAN--INFLUENCE ON NATURE
K 113	MAN AND NATURE		4-6	CONSERVATION OF NATURAL RESOURCES MAN--INFLUENCE OF ENVIRONMENT MAN--INFLUENCE ON NATURE
K 77	MAN AND THE CITY		7-9	CITIES AND TOWNS--PLANNING CITY LIFE HUMAN ECOLOGY
FL 205	MAN IN THE BIOSPHERE		4-6	MAN--INFLUENCE OF ENVIRONMENT MAN--INFLUENCE ON NATURE POLLUTION
FL 207	MAN, TECHNOLOGY, AND POLLUTION		4-6	MAN--INFLUENCE ON NATURE PESTICIDES
K 349	MAN'S NATURAL ENV: CRISIS THROUGH ABUSE		7-9	CONSERVATION OF NATURAL RESOURCES POLLUTION
FL 262	MANGROVE SWAMP: SUCCESSION		10-12	ECOLOGY FOREST ECOLOGY MANGROVE SWAMPS

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FL 262	MANGROVE SWAMP: SUCCESSION		10-12	PLANT SUCCESSION
K 9	MAPPING		4-6	GAMES, EDUCATIONAL MAPS
K 122	MASS MEDIA: IMPACT ON A NATION		7-9	COMMUNICATION JOURNALISM TELEVISION BROADCASTING
FL 277	MASS WASTING		10-12	LANDSLIDES PHYSICAL GEOGRAPHY
K 96	MATERIAL CYCLES IN NATURE		10-12	ECOLOGY MATERIALS PERIODICITY
K 36	MATTER AND ENERGY, ALPHA		7-9	ELECTRICITY MACHINES MAGNETS ROCKETS SCIENCE--STUDY AND TEACHING
K 37	MATTER AND ENERGY, BETA		7-9	CHEMISTRY HEAT LIGHT SCIENCE--STUDY AND TEACHING SOUND
FS 228	MEASURING		4-6	MEASURING INSTRUMENTS METRIC SYSTEM
MP 253	MEN AT BAY		10-12	WATER--POLLUTION WATER--POLLUTION--SAN FRANCISCO BAY
SP 296	METAMORPHIC ROCKS		7-9	GEOLOGY MINERALOGY ROCKS
FL 327	MISS GOODALL AND THE WILD CHIMPANZEES		4-6	ANIMALS--HABITS AND BEHAVIOR CHIMPANZEES--BEHAVIOR LAWICK-GOODALL, JANE BARONESS VAN
FL 359	MONEY POOL: INVESTMENT AND FINANCE		10-12	CAPITAL ECONOMICS MONEY
FL 212	MOOSE		4-6	ANIMALS--HABITS AND BEHAVIOR MOOSE
FL 248	MOUNTAIN FEATURES		7-9	MOUNTAINS

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FL 248	MOUNTAIN FEATURES		7-9	MOUNTAINS--TERMINOLOGY
GA 246	MOUSE IN THE MAZE		7-9	ANIMALS--HABITS AND BEHAVIOR GAMES, EDUCATIONAL
MP 201	MOVEMENT EXPLORATION: WHAT AM I		K-3	HUMAN MECHANICS MOTION PERCEPTION
K 138	MY SENSES AND ME		K-3	PERCEPTION SENSES AND SENSATION
MP 266	NATIONAL PARKS: AMERICA'S LEGACY		4-6	CONSERVATION OF NATURAL RESOURCES NATIONAL PARKS AND RESERVES--U. S.
K 294	NATURE FROM A TO Z		4-6	ANIMALS--HABITS AND BEHAVIOR BIOLOGY BOTANY NATURE STUDY PLANTS
K 64	NATURE STUDY		K-3	ASTRONOMY BOTANY GEOLOGY ZOOLOGY
PI 239	NATURE'S COMMUNITIES: A COPAL REEF		4-6	CORAL REEFS AND ISLANDS MARINE ANIMALS OCEAN ECOLOGY
PI 240	NATURE'S COMMUNITIES: A DECIDUOUS FOREST		4-6	BOTANY--ECOLOGY FOREST BIRDS FOREST ECOLOGY
PI 241	NATURE'S COMMUNITIES: A FOREST DEVELOPS		4-6	BOTANY--ECOLOGY FOREST ECOLOGY FOREST FAUNA
PI 242	NATURE'S COMMUNITIES: A FRESHWATER POND		4-6	FRESH-WATER ANIMALS FRESH-WATER BIOLOGY FRESH-WATER ECOLOGY
PI 243	NATURE'S COMMUNITIES: A TROPICAL RAIN FOREST		4-6	BOTANY--ECOLOGY FOREST ECOLOGY FORESTS AND FORESTRY
PI 238	NATURE'S COMMUNITIES: AN AMERICAN DESERT		4-6	DESERT ANIMALS DESERT PLANTS DESERTS
K 50	NERVOUS SYSTEMS		10-12	ANATOMY, COMPARATIVE

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 50	NERVOUS SYSTEMS		10-12	ANIMALS ZOOLOGY
TR 310	NIGHT SKY		4-6	GALAXIES SOLAR SYSTEM STARS
MP 224	NOISE—POLLUTING ENVIRONMENT		10-12	CITY NOISE NOISE--POLLUTION
MP 256	NORTH WITH THE SPRING, PT 1		10-12	ECOLOGY NATURE STUDY SPRING
MP 257	NORTH WITH THE SPRING, PT 2		10-12	
K 125	NOW YOU KNOW ABOUT PLANTS		K-3	PLANTS
K 95	NUTRITIONAL RELATIONS IN NATURE		10-12	ECOLOGY FOOD CHAINS
PI 89	OCEANOGRAPHY		7-9	MARINE BIOLOGY OCEANOGRAPHY SUBMARINE GEOLOGY
K 79	OCEANS		4-6	MARINE BIOLOGY MARINE ECOLOGY MARINE RESOURCES OCEANOGRAPHY
FL 324	OLDER INFANT, BABOON		4-6	ANIMALS--HABITS AND BEHAVIOR BABOONS MONKEYS
MP 211	ONCE THERE WERE BLUEBIRDS		K-3	ECOLOGY MAN--INFLUENCE OF ENVIRONMENT PESTICIDES AND THE ENVIRONMENT
K 237	OUR ANIMAL FRIENDS		K-3	ANIMALS--HABITATIONS ANIMALS--HABITS AND BEHAVIOR
MP 230	OUR CHANGING CITIES: CAN THEY BE SAVED?		10-12	CONSERVATION OF NATURAL RESOURCES MAN--INFLUENCE OF ENVIRONMENT NATURAL RESOURCES
MP 206	PEOPLE WHO FIGHT POLLUTION		10-12	AIR--POLLUTION SANITATION WORKERS WATER--POLLUTION
K 57	PERCEPTION: BIRDS		7-9	BIRDS

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 57	PERCEPTION: BIRDS		7-9	PERCEPTION
K 56	PERCEPTION: THE CITY		7-9	CITIES AND TOWNS PERCEPTION
K 58	PERCEPTION: THE SEA		7-9	NATURE PHOTOGRAPHY PERCEPTION SEA
K 178	PERCEPTION: THE SEASONS		7-9	PERCEPTION SEASONS
K 59	PERCEPTION: THE WEST		7-9	NATURE PHOTOGRAPHY PERCEPTION THE WEST
K 231	PHOSPHATE TEST		7-9	CHEMICAL APPARATUS CHEMISTRY CHEMISTRY, ANALYTIC PHOSPHATES
FL 204	PHYSICAL ENVIRONMENT		4-6	ECOLOGY GEOGRAPHICAL DISTRIBUTION OF ANIMALS&PL
S 313	PHYSICAL GEOGRAPHY		7-9	CLIMATE EARTH PHYSICAL GEOGRAPHY--U. S.
GA 44	PLANET MANAGEMENT		7-9	GAMES, EDUCATIONAL HUMAN ECOLOGY POLLUTION POPULATION
S 304	PLANT ANATOMY		10-12	BOTANY GROWTH (PLANTS) PLANTS
S 22	PLANT ECOLOGY, SET 2		7-9	GROWTH (PLANTS) PLANTS PLANTS--SOILLESS CULTURE SOILS
K 92	PLANT GROWTH LAB		4-6	GROWTH (PLANTS) PLANT BREEDING PLANTS
K 245	PLANTS		7-9	FLOWERS FRUIT PLANTS TREES

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 127	PLANTS AND THEIR ENVIRONMENT		7-9	FERTILIZATION OF PLANTS PLANT PROPAGATION PLANTS
GA 343	POLLUTION		7-9	GAMES, EDUCATIONAL MAN--INFLUENCE OF ENVIRONMENT POLLUTION
K 13	POLLUTION		4-6	AIR--POLLUTION CONSERVATION OF NATURAL RESOURCES PESTICIDES AND THE ENVIRONMENT RADIOACTIVE FALLOUT WATER--POLLUTION
K 162	POLLUTION OF THE ATMOSPHERE		K-3	AIR--POLLUTION
K 161	POLLUTION OF THE WATERS		K-3	WATER--POLLUTION
K 229	POLLUTION TEST KIT		7-9	AIR--POLLUTION POLLUTION WATER--POLLUTION
FL 185	POND ENVIRONMENT PART 1: PLANKTON		10-12	ADAPTATION (BIOLOGY) PLANKTON POND ECOLOGY
FL 276	POND: FOOD WEB		10-12	ECOLOGY FOOD CHAINS POND ECOLOGY
FL 208	POPULATION		4-6	ECOLOGY POPULATION
GA 184	POPULATION		7-9	GAMES, EDUCATIONAL HUMAN ECOLOGY POPULATION
K 351	POWERS OF NATURE		7-9	DISASTERS ECOLOGY MAN--INFLUENCE ON NATURE WEATHER CONTROL
FL 249	PRAIRIE FEATURES		7-9	PRAIRIES PRAIRIES--TERMINOLOGY
FS 301	PREHISTORIC LIFE		4-6	EXTINCT ANIMALS FOSSILS MAMMALS, FOSSIL
FL 275	PRICE IS RIGHT: SUPPLY AND DEMAND		10-12	ECONOMICS

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FL 275	PRICE IS RIGHT: SUPPLY AND DEMAND		10-12	EXCHANGE SUPPLY AND DEMAND
FS 154	PRIMARY SCIENCE		K-3	EARTH SCIENCE--STUDY AND TEACHING SEASONS WEATHER
K 93	PROBLEMS IN ECOLOGY		10-12	ECOLOGY MAN--INFLUENCE ON NATURE
MP 226	PROBLEMS OF CONSERVATION: AIR		10-12	AIR--POLLUTION POLLUTION
MP 220	PROBLEMS OF CONSERVATION: FOREST AND RANGE		10-12	CONSERVATION OF NATURAL RESOURCES FOREST CONSERVATION--U. S.
MP 228	PROBLEMS OF CONSERVATION: MINERALS		10-12	CONSERVATION OF NATURAL RESOURCES MINES AND MINERAL RESOURCES
MP 232	PROBLEMS OF CONSERVATION: OUR NATURAL RESOURCES		10-12	CONSERVATION OF NATURAL RESOURCES
MP 223	PROBLEMS OF CONSERVATION: SOIL		10-12	CONSERVATION OF NATURAL RESOURCES SOIL CONSERVATION
MP 229	PROBLEMS OF CONSERVATION: WATER		10-12	CONSERVATION OF NATURAL RESOURCES WATER CONSERVATION WATER--POLLUTION
MP 221	PROBLEMS OF CONSERVATION: WILDLIFE		10-12	RARE ANIMALS WILDLIFE REFUGES WILDLIFE--CONSERVATION
FS 300	PROCESSES OF SCIENCE: CLASSIFYING		4-6	ANIMALS COLOR OF ANIMALS PERCEPTION SIZE AND SHAPE
K 80	PROTECTIVE COLORATION		10-12	ANIMALS--HABITS AND BEHAVIOR COLOR OF ANIMALS VARIATION (BIOLOGY)
FL 274	PUBLIC TRANSPORTATION		10-12	LOCAL TRANSIT TRANSPORTATION
FL 280	PUSH A BUTTON: AUTOMATION, LABOR SAVING		10-12	DIVISION OF LABOR ECONOMICS MACHINERY IN INDUSTRY
FL 273	QUARTER COMES BACK: CIRCULATION OF MONEY		10-12	EXCHANGE

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FL 273	QUARTER COMES BACK: CIRCULATION OF MONEY		10-12	MONEY
MP 261	QUESTION OF VALUES		7-9	BLACKS--SOCIAL CONDITIONS RACE PROBLEMS U.S.--RACE RELATIONS
GA 45	REDWOOD CONTROVERSY		7-9	CONSERVATION OF NATURAL RESOURCES ENVIRONMENTAL POLICY FORESTS AND FORESTRY GAMES, EDUCATIONAL NATURAL RESOURCES
MP 260	REDWOODS		7-9	FORESTS AND FORESTRY REDWOOD TREES
K 51	REPRODUCTIVE SYSTEMS		10-12	ANATOMY, COMPARATIVE ANIMALS ZOOLOGY
FC 102	REPTILES		4-6	REPTILES
K 49	RESPIRATORY SYSTEMS		10-12	ANATOMY, COMPARATIVE ANIMALS ZOOLOGY
MP 236	RISE AND FALL OF THE GREAT LAKES		7-9	GREAT LAKES WATER
FL 251	RIVER FEATURES		7-9	RIVER--TERMINOLOGY RIVERS
SP 297	ROCK CYCLE		7-9	GEOLOGY MINERALOGY ROCKS
K 233	ROTOROD POLLEN AND SPORE SAMPLING		10-12	POLLEN SCIENCE--EXPERIMENTS SCIENTIFIC APPARATUS AND INSTRUMENTS SPORES (BIOLOGY)
FL 272	SAUGUS IRONWORKS		10-12	IRON INDUSTRY AND TRADE--SAUGUS, MASS., SAUGUS IRONWORKS RESTORATION
K 124	SEARCH FOR VALUES		10-12	BEHAVIOR HUMAN RELATIONS SOCIAL PSYCHOLOGY VALUES
SP 298	SEDIMENTARY ROCKS		7-9	GEOLOGY

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
SP 298	SEDIMENTARY ROCKS		7-9	MINERALOGY ROCKS
FL 279	SHOPPING CENTER		10-12	COMMUNITY LIFE ECONOMICS RETAIL TRADE SHOPPING CENTERS
MP 241	SILENT SPRING OF RACHEL CARSON, PT 1		7-9	PESTICIDES AND THE ENVIRONMENT PESTICIDES AND WILDLIFE WILDLIFE--CONSERVATION
MP 242	SILENT SPRING OF RACHEL CARSON, PT 2		7-9	
S 307	SIMPLE LIFE FORMS		10-12	BACTERIOLOGY BOTANY FERNS MOSSES PLANTS
S 312	SLIDE SURVEY OF GEOLOGY		7-9	EARTH GEOLOGY PHYSICAL GEOGRAPHY
K 317	SMALL WORLDS OF LIFE		7-9	ADAPTATION (BIOLOGY) ANIMALS--HABITS AND BEHAVIOR BOTANY--ECOLOGY MARINE ECOLOGY
GA 182	SMOG		10-12	AIR--POLLUTION GAMES, EDUCATIONAL MAN--INFLUENCE OF ENVIRONMENT
K 230	SMOKING EXPERIMENT KIT		4-6	SMOKING TOBACCO
K 235	SOIL: ITS MEANING FOR MAN		4-6	CONSERVATION OF NATURAL RESOURCES SOIL CONSERVATION SOILS
K 128	SOLID WASTE MANAGMENT		4-6	CONSERVATION OF NATURAL RESOURCES FACTORY AND TRADE WASTE POLLUTION REFUSE AND REFUSE DISPOSAL
MP 215	SOUNDS IN THE SILENT DEEP		10-12	MARINE BIOLOGY OCEAN SOUNDS OCEANOGRAPHY SOUNDS
FL 287	STRUGGLE FOR SURVIVAL: HATCHING TURTLES		10-12	MARINE ANIMALS

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FL 287	STRUGGLE FOR SURVIVAL: HATCHING TURTLES		10-12	SEA TURTLES
SP 168	STUDENT ROCK IDENTIFICATION		4-6	GEOLOGY MINERALOGY ROCKS
S 311	SURVEY OF GEOMORPHOLOGY		7-9	ASTRONOMY GEOLOGY--MAPS GEOLOGY, ECONOMIC GEOLOGY, STRATIGRAPHIC GEOPHYSICS
S 23	SURVEY OF PLANT ENVIRONMENTS		7-9	ALPINE PLANTS BOTANY DESERT PLANTS PLANT INTRODUCTION
MP 258	SURVIVAL OF SPACESHIP EARTH, PT 1		10-12	AIR--POLLUTION MAN--INFLUENCE OF ENVIRONMENT POLLUTION WATER--POLLUTION
MP 259	SURVIVAL OF SPACESHIP EARTH, PT 2		10-12	
MO 19	TALKING FLOWER		4-6	BOTANY FLOWERS
MO 27	TALKING TORSO AND HEAD		4-6	ANATOMY BODY, HUMAN
K 145	THAT'S NO FAIR!		K-3	BEHAVIOR HUMAN RELATIONS VALUES
K 129	THERMAL WATER POLLUTION		4-6	MAN--INFLUENCE OF ENVIRONMENT WATER--POLLUTION
K 19	THINK METRIC: UNDERSTANDING AND USING THE METRIC		7-9	METRIC SYSTEM WEIGHTS AND MEASURES
K 151	THIS EARTH: A WORLD OF DIFFERENCES		4-6	ADAPTATION (BIOLOGY) ANIMALS--HABITS AND BEHAVIOR ECOLOGY NATURE STUDY
K 220	THIS EARTH: EVERYTHING FITS TOGETHER		4-6	ADAPTATION (BIOLOGY) ANIMALS--HABITS AND BEHAVIOR ECOLOGY NATURE STUDY
K 149	THIS EARTH: HOW LIFE ADAPTS		4-6	ADAPTATION (BIOLOGY)

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 149	THIS EARTH: HOW LIFE ADAPTS		4-6	ANIMALS--HABITS AND BEHAVIOR
K 150	THIS EARTH: THE WONDER OF CHANGE		4-6	ECOLOGY GEOLOGY MAN--INFLUENCE ON NATURE
K 309	TIME AND THE ENVIRONMENT		10-12	ENVIRONMENTAL POLICY--U. S. MAN--INFLUENCE OF ENVIRONMENT
MP 251	TIME OF MAN		10-12	MAN--INFLUENCE OF ENVIRONMENT MAN--INFLUENCE ON NATURE
MP 218	TIME TO BEGIN		7-9	LANDSCAPE PROTECTION MAN--INFLUENCE OF ENVIRONMENT POLLUTION
S 305	TISSUES AND REPRODUCTION		10-12	BACTERIOLOGY BIOLOGY EMBRYOLOGY REPRODUCTION
K 29	TOTAL ENVIRONMENT		4-6	ECOLOGY HUMAN ECOLOGY MAN--INFLUENCE OF ENVIRONMENT
MP 252	TRAGEDY OF THE COMMONS		10-12	ECOLOGY MAN--INFLUENCE OF ENVIRONMENT
FL 278	TRANSACTIONS WITHIN THE CITY		10-12	CITIES AND TOWNS COMMUNITY LIFE METROPOLITAN AREAS
K 12	TREE MAN: A FIRST ADVENTURE IN ECOLOGY		K-3	ADAPTATION (BIOLOGY) ECOLOGY MAN--INFLUENCE OF ENVIRONMENT
MP 250	TREEHOUSE		7-9	CONSERVATION OF NATURAL RESOURCES HUMAN ECOLOGY MAN--INFLUENCE OF ENVIRONMENT
K 15	TREES		4-6	CONSERVATION OF NATURAL RESOURCES FORESTS AND FORESTRY LUMBER AND LUMBERING
K 147	TROUBLE WITH TRUTH		K-3	BEHAVIOR HONESTY HUMAN RELATIONS TRUTHFULNESS AND FALSEHOOD
FS 195	TRUE BOOK BIOLOGICAL SCIENCE		K-3	ANATOMY

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
FS 195	TRUE BOOK BIOLOGICAL SCIENCE		K-3	DINOSAURS DOMESTIC ANIMALS PETS REPTILES TROPICAL FISH
FS 191	TRUE BOOK NATURAL SCIENCE		K-3	ANIMALS BIRDS INSECTS PLANTS TREES
FS 190	TRUE BOOK PHYSICAL SCIENCE		K-3	AIR DESERTS ROCKS SEASONS SOLAR SYSTEM
FS 192	TRUE BOOK SCIENCE EXPERIMENTS		K-3	SCIENCE--EXPERIMENTS
MP 231	TURN OFF POLLUTION		4-6	MAN--INFLUENCE OF ENVIRONMENT POLLUTION
K 76	TWO CULTURES: CASE STUDIES IN SOCIAL VALUES		10-12	CULTURAL RELATIONS HUMAN RELATIONS INDIA--SOCIAL LIFE AND CUSTOMS SOCIAL SCIENCES U.S.--SOCIAL LIFE AND CUSTOMS
T 319	UNDERSTANDING AIR POLLUTION		K-3	AIR--POLLUTION AIR--POLLUTION--PHYSIOLOGICAL EFFECTS
K 217	UNDERSTANDING THE SEA AND OCEAN		4-6	MARINE BIOLOGY OCEANOGRAPHY
T 320	UNDERSTANDING WATER POLLUTION		K-3	WATER--POLLUTION WATER--PURIFICATION
MP 265	URBAN ECOLOGY: RECYCLING		7-9	ECOLOGY MAN--INFLUENCE OF ENVIRONMENT SALVAGE (WASTE, ETC.) WASTE PRODUCTS
FL 253	URBAN FEATURES		7-9	METROPOLITAN AREAS URBAN RENEWAL
K 55	VISION AND ENVIRONMENT: A WORLD OF COLOR		K-3	COLOR SENSE COLOR--PSYCHOLOGY SENSES AND SENSATION
K 61	VISION AND ENVIRONMENT: A WORLD OF SHAPES		K-3	FORM PERCEPTION

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 61	VISION AND ENVIRONMENT: A WORLD OF SHAPES		K-3	PERCEPTION SIZE AND SHAPE
K 123	VOLCANOES OF AMERICA		7-9	GEOLOGY LAVA PHYSICAL GEOGRAPHY VOLCANOES
MP 246	WANDERING THROUGH WINTER, PT 1		10-12	ECOLOGY NATURE STUDY WINTER
MP 247	WANDERING THROUGH WINTER, PT 2		10-12	
FL 213	WAPITI, AMERICAN ELK		4-6	ANIMALS--HABITS AND BEHAVIOR ELK
SP 169	WASHINGTON SCHOOL COLLECTION OF ROCKS & MINERALS		4-6	GEOLOGY MINERALOGY ROCKS
K 172	WATCH AND WONDER PRIMARY SCIENCE, LEVEL I		K-3	NATURE STUDY SCIENCE--EXPERIMENTS SCIENCE--STUDY AND TEACHING
K 173	WATCH AND WONDER, PRIMARY SCIENCE, LEVEL 2		K-3	NATURE STUDY SCIENCE--EXPERIMENTS SCIENCE--STUDY AND TEACHING
K 174	WATCH AND WONDER, PRIMARY SCIENCE, LEVEL 3		K-3	NATURE STUDY SCIENCE--EXPERIMENTS SCIENCE--STUDY AND TEACHING
K 112	WATER AND AIR		4-6	DROUGHTS POLLUTION SALINE WATER CONVERSION WATER--POLLUTION
K 73	WATER POLLUTION		4-6	MARINE RESOURCES WATER--POLLUTION
K 130	WATER POLLUTION		4-6	WATER--POLLUTION
K 176	WATER POLLUTION DETECTION OUTFIT, MODEL AN-21		10-12	WATER--ANALYSIS WATER--POLLUTION
K 177	WATER POLLUTION DETECTION OUTFIT, MODEL AN-24		10-12	INDUSTRIAL--POLLUTION WATER--ANALYSIS WATER--POLLUTION
MP 213	WATER POLLUTION: A FIRST FILM		K-3	WATER--POLLUTION

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 152	WATER TESTING KIT		4-6	WATER--ANALYSIS
MP 212	WATER: A FIRST FILM		K-3	WATER
FS 201	WEATHER		4-6	CLIMATE RAIN AND RAINFALL WEATHER WINDS
K 216	WEATHER		7-9	METEOROLOGY WEATHER
K 350	WEB OF LIVING THINGS		7-9	ADAPTATION (BIOLOGY) BOTANY--ECOLOGY ECOLOGY
S 314	WESTERN PLANT ECOLOGY		10-12	BOTANY--ECOLOGY GEOGRAPHICAL DISTRIBUTION OF ANIMALS&PL PLANTS
SP 167	WESTERN ROCK AND MINERAL COLLECTION		4-6	GEOLOGY MINERALOGY ROCKS
MP 239	WHAT ARE WE DOING TO OUR WORLD, PART 1		7-9	AIR--POLLUTION CONSERVATION OF NATURAL RESOURCES WATER--POLLUTION
MP 240	WHAT ARE WE DOING TO OUR WORLD, PART 2		7-9	ASWAN DAM CONSERVATION OF NATURAL RESOURCES ECOLOGY EVERGLADES PANAMA CANAL
K 143	WHAT DO YOU DO ABOUT RULES?		K-3	BEHAVIOR HUMAN RELATIONS VALUES
K 117	WHAT IS SCIENCE?		4-6	SCIENCE--STUDY AND TEACHING THOUGHTS AND THINKING
FL 299	WHAT'S IN THE AIR?		10-12	AIR AIR--POLLUTION
MP 214	WHICH IS MY WORLD?		K-3	MAN--INFLUENCE ON NATURE POLLUTION
K 180	WHO AM I		K-3	BEHAVIOR HUMAN RELATIONS
K 11	WHY AM I AFRAID TO TELL YOU WHO I AM?		10-12	EMOTIONS

CALL NUMBER	TITLE	AUTHOR	LEVEL	SUBJECT HEADINGS
K 11	WHY AM I AFRAID TO TELL YOU WHO I AM?		10-12	FRIENDSHIP HUMAN RELATIONS LOVE
K 69	WHY ANIMALS LIVE WHERE THEY DO		K-3	ANIMALS--HABITS AND BEHAVIOR FRESH-WATER ANIMALS MARINE ANIMALS
FS 155	WILD FLOWERS OF NORTH AMERICA		4-6	FLOWERS GEOGRAPHICAL DISTRIBUTION OF ANIMALS&PL WILD FLOWERS
FL 337	WINTER SEA--ICE CAMP, PART 1		4-6	ARCTIC REGIONS ESKIMOS ESKIMOS--SOCIAL LIFE AND CUSTOMS
FL 338	WINTER SEA--ICE CAMP, PART 2		4-6	ARCTIC REGIONS ESKIMOS ESKIMOS--SOCIAL LIFE AND CUSTOMS
FL 339	WINTER SEA--ICE CAMP, PART 5		4-6	ARCTIC REGIONS ESKIMOS ESKIMOS--SOCIAL LIFE AND CUSTOMS
FL 340	WINTER SEA--ICE CAMP, PART 6		4-6	ARCTIC REGIONS ESKIMOS ESKIMOS--SOCIAL LIFE AND CUSTOMS
K 146	YOU PROMISED!		K-3	BEHAVIOR HUMAN RELATIONS VALUES
K 224	YOUNG SCIENTISTS INVESTIGATE POLLUTION		4-6	AIR--POLLUTION WATER--POLLUTION
FL 323	YOUNGER INFANT, BABOON		4-6	ANIMALS--HABITS AND BEHAVIOR BABOONS MONKEYS
K 315	ZOO AND WILD ANIMALS		K-3	ANIMALS--HABITS AND BEHAVIOR ZOO ANIMALS ZOOLOGICAL GARDENS

TITLE	LEVEL	AUTHOR	SUBJECTS COVERED	CALL NUMBER
ABANDONMENT OF THE CITIES	10-12		CITIES AND TOWNS MAN--INFLUENCE OF ENVIRONMENT	MP 263
AGING OF LAKES	7-9		LAKES MAN--INFLUENCE ON NATURE WATER--POLLUTION	MP 222
AUTUMN ACROSS AMERICA, PT 1	10-12		AUTUMN ECOLOGY MAN--INFLUENCE ON NATURE NATURE STUDY	MP 254
AUTUMN ACROSS AMERICA, PT 2	10-12			MP 255
BUTTERCUP	4-6		FACTORY AND TRADE WASTE MAN--INFLUENCE ON NATURE WATER--POLLUTION	MP 205
CITIES HAVE NO LIMITS, PT 1	7-9		CITIES AND TOWNS--U.S. URBAN RENEWAL	MP 216
CITIES HAVE NO LIMITS, PT 2	7-9			MP 217
CONCH SHELL	K-3		ECOLOGY SHELLS	MP 248
CONSERVING OUR ENVIRONMENT:USE AND REUSE	7-9		CONSERVATION OF NATURAL RESOURCES ECOLOGY MAN--INFLUENCE OF ENVIRONMENT	MP 203
CONTROVERSY OVER INDUSTRIAL POLLUTION:A CASE STD	10-12		ECOLOGY MAN--INFLUENCE OF ENVIRONMENT POLLUTION	MP 227
CRY OF THE MARSH	7-9		CONSERVATION OF NATURAL RESOURCES MAN--INFLUENCE OF ENVIRONMENT	MP 219
DETERIORATION OF WATER	10-12		WATER--POLLUTION	MP 208
DISCOVERING THE FOREST	4-6		ANIMALS--HABITS AND BEHAVIOR FOREST ECOLOGY	MP 234
DIVIDED WORLD	7-9		ECOLOGY NATURE STUDY	MP 238
DONALD IN MATHMAGIC LAND	7-9		MATHEMATICS	MP 264
ECOLOGY: CHECKS AND BALANCES	7-9		BIOLOGY ECOLOGY	MP 235

TITLE	LEVEL	AUTHOR	SUBJECTS COVERED	CALL NUMBER
END OF ONE	10-12		MAN—INFLUENCE OF ENVIRONMENT POLLUTION	MP 209
ENERGY TO BURN	10-12		CONSERVATION OF NATURAL RESOURCES FUEL POWER RESOURCES	MP 262
ENVIRONMENT: EVERYTHING AROUND US	K-3		ECOLOGY MAN—INFLUENCE OF ENVIRONMENT POLLUTION	MP 233
GARBAGE	7-9		ECOLOGY MAN—INFLUENCE OF ENVIRONMENT REFUSE AND REFUSE DISPOSAL	MP 249
GARBAGE EXPLOSION	10-12		POLLUTION REFUSE AND REFUSE DISPOSAL	MP 225
GREAT SEA FARM	7-9		MARINE BIOLOGY MARINE ECOLOGY MARINE RESOURCES	MP 210
INTRODUCING ECOLOGY: DEPENDENCE AND SHARING	4-6		ADAPTATION (BIOLOGY) ECOLOGY GEOGRAPHICAL DISTRIBUTION OF ANIMALS&PL	MP 204
JOURNEY INTO SUMMER, PT 1	10-12		ECOLOGY MAN—INFLUENCE ON NATURE NATURE STUDY SUMMER	MP 244
JOURNEY INTO SUMMER, PT 2	10-12			MP 245
LIVING EARTH	7-9		NATURE STUDY THOREAU, HENRY DAVID, 1817-1862	MP 237
LORAX	4-6		ECOLOGY NATURAL RESOURCES	MP 202
MEN AT BAY	10-12		WATER—POLLUTION WATER—POLLUTION--SAN FRANCISCO BAY	MP 253
MOVEMENT EXPLORATION: WHAT AM I	K-3		HUMAN MECHANICS MOTION PERCEPTION	MP 201
NATIONAL PARKS: AMERICA'S LEGACY	4-6		CONSERVATION OF NATURAL RESOURCES NATIONAL PARKS AND RESERVES—U. S.	MP 266
NOISE--POLLUTING ENVIRONMENT	10-12		CITY NOISE	MP 224

TITLE	LEVEL	AUTHOR	SUBJECTS COVERED	CALL NUMBER
NOISE--POLLUTING ENVIRONMENT	10-12		NOISE—POLLUTION	MP 224
NORTH WITH THE SPRING, PT 1	10-12		ECOLOGY NATURE STUDY SPRING	MP 256
NORTH WITH THE SPRING, PT 2	10-12			MP 257
ONCE THERE WERE BLUEBIRDS	K-3		ECOLOGY MAN—INFLUENCE OF ENVIRONMENT PESTICIDES AND THE ENVIRONMENT	MP 211
OUR CHANGING CITIES: CAN THEY BE SAVED?	10-12		CONSERVATION OF NATURAL RESOURCES MAN—INFLUENCE OF ENVIRONMENT NATURAL RESOURCES	MP 230
PEOPLE WHO FIGHT POLLUTION	10-12		AIR—POLLUTION SANITATION WORKERS WATER—POLLUTION	MP 206
PROBLEMS OF CONSERVATION: AIR	10-12		AIR—POLLUTION POLLUTION	MP 226
PROBLEMS OF CONSERVATION: FOREST AND RANGE	10-12		CONSERVATION OF NATURAL RESOURCES FOREST CONSERVATION—U. S.	MP 220
PROBLEMS OF CONSERVATION: MINERALS	10-12		CONSERVATION OF NATURAL RESOURCES MINES AND MINERAL RESOURCES	MP 228
PROBLEMS OF CONSERVATION: OUR NATURAL RESOURCES	10-12		CONSERVATION OF NATURAL RESOURCES	MP 232
PROBLEMS OF CONSERVATION: SOIL	10-12		CONSERVATION OF NATURAL RESOURCES SOIL CONSERVATION	MP 223
PROBLEMS OF CONSERVATION: WATER	10-12		CONSERVATION OF NATURAL RESOURCES WATER CONSERVATION WATER—POLLUTION	MP 229
PROBLEMS OF CONSERVATION: WILDLIFE	10-12		RARE ANIMALS WILDLIFE REFUGES WILDLIFE--CONSERVATION	MP 221
QUESTION OF VALUES	7-9		BLACKS--SOCIAL CONDITIONS RACE PROBLEMS U.S.--RACE RELATIONS	MP 261
REDWOODS	7-9		FORESTS AND FORESTRY REDWOOD TREES	MP 260

TITLE	LEVEL	AUTHOR	SUBJECTS COVERED	CALL NUMBER
RISE AND FALL OF THE GREAT LAKES	7-9		GREAT LAKES WATER	MP 236
SILENT SPRING OF RACHEL CARSON, PT 1	7-9		PESTICIDES AND THE ENVIRONMENT PESTICIDES AND WILDLIFE WILDLIFE--CONSERVATION	MP 241
SILENT SPRING OF RACHEL CARSON, PT 2	7-9			MP 242
SOUNDS IN THE SILENT DEEP	10-12		MARINE BIOLOGY OCEAN SOUNDS OCEANOGRAPHY SOUNDS	MP 215
SURVIVAL OF SPACESHIP EARTH, PT 1	10-12		AIR—POLLUTION MAN—INFLUENCE OF ENVIRONMENT POLLUTION WATER--POLLUTION	MP 258
SURVIVAL OF SPACESHIP EARTH, PT 2	10-12			MP 259
TIME OF MAN	10-12		MAN—INFLUENCE OF ENVIRONMENT MAN—INFLUENCE ON NATURE	MP 251
TIME TO BEGIN	7-9		LANDSCAPE PROTECTION MAN—INFLUENCE OF ENVIRONMENT POLLUTION	MP 218
TRAGEDY OF THE COMMONS	10-12		ECOLOGY MAN—INFLUENCE OF ENVIRONMENT	MP 252
TREEHOUSE	7-9		CONSERVATION OF NATURAL RESOURCES HUMAN ECOLOGY MAN—INFLUENCE OF ENVIRONMENT	MP 250
TURN OFF POLLUTION	4-6		MAN—INFLUENCE OF ENVIRONMENT POLLUTION	MP 231
URBAN ECOLOGY: RECYCLING	7-9		ECOLOGY MAN—INFLUENCE OF ENVIRONMENT SALVAGE (WASTE, ETC.) WASTE PRODUCTS	MP 265
WANDERING THROUGH WINTER, PT 1	10-12		ECOLOGY NATURE STUDY WINTER	MP 246
WANDERING THROUGH WINTER, PT 2	10-12			MP 247
WATER POLLUTION: A FIRST FILM	K-3		WATER—POLLUTION	MP 213

TITLE	LEVEL	AUTHOR	SUBJECTS COVERED	CALL NUMBER
WATER: A FIRST FILM	K-3		WATER	MP 212
WHAT ARE WE DOING TO OUR WORLD, PART 1	7-9		AIR—POLLUTION CONSERVATION OF NATURAL RESOURCES WATER—POLLUTION	MP 239
WHAT ARE WE DOING TO OUR WORLD, PART 2	7-9		ASWAN DAM CONSERVATION OF NATURAL RESOURCES ECOLOGY EVERGLADES PANAMA CANAL	MP 240
WHICH IS MY WORLD?	K-3		MAN—INFLUENCE ON NATURE POLLUTION	MP 214

MP 263 Abandonment of the cities (Motion picture)
NBC Educational Enterprises, 1971
11min. sd. color 16mm.

SUMMARY: Shows scenes of abandoned broken-down apartments in Cleveland, St. Louis and New York to point up the growing problem
10-12 of remaining in the city when vandalism, crime, and lack of building maintenance funds force landlords and tenants to move where life is safer and more sanitary.

1 Cities and towns--U.S. 2 Man--Influence of environment

573

73-714191

MP 222 Aging of lakes (Motion picture)
Encyclopaedia Britannica Educational Corp., 1971
14min. sd. color 16mm.

Teacher's guide.
7-9 SUMMARY: Traces the aging process of lakes, showing how man's interference with the environment causes critical changes in the natural ecology. Describes efforts to preserve and restore damaged lakes.

1 Man--Influence on nature 2 Lakes 3 Water--Pollution

551.4

78-712296

K 86 Adventures in environment (Kit)
Silver Burdett, 1971
12 colored picture boards printed on both sides; 8 different phamplets

2 teacher's manuals.
Level 3-6 Student classroom book; outdoor book and teacher's guide for each level.
4-6 SUMMARY: Increases students' awareness and appreciation of the natural world, that all parts of the natural world are interrelated. Discusses some sources and effects of pollution and some possible solutions to our environmental situation.

1 Man--Influence of environment on nature 2 Man--Influence 3 Pollution 4 Human ecology

301

K 171 Air pollution (Kit)
Pollution Control Education, distributed by McGraw-Hill, 1973
kit with various multi-media (Priority on environment)

Teacher's guide.
4-6 CONTENTS: 150 student booklets (30 copies of each 5 lessons)--30 smoke observation charts--9 Duplication masters (investigations and the 3-page unit test)--4 overhead transparencies--film loop--cassette: 1 7/8ips. single track 1s.--30 birthday candles--1 lb. of clay--10 tiles, small, glazed--10 tweezers --30 microscope slides, plastic--6 hand

(Continued on next card)

FS 1 Adventures in nature (Filmstrip)
Jam Handy, distributed by Davis Audio Visual, 1969
9fs. color 35mm. approx. 41fr. ea.

Captioned filmstrip.
K-3 CONTENTS: A walk in the woods, pt. 1 & 2--A walk around a pond, pt. 1, 2 & 3--A walk in a field, pt. 1 & 2--A walk in the sand dunes--A walk in the city.
SUMMARY: Brings an understanding of the problems faced by plants and animals in five different environments.

1 Natural resources 2 Adaptation (Biology)

574

K 171 Air pollution (Card 2)

lenses--temperature inversion appratus.
SUMMARY: Familiarizes the students with various kinds of atmospheric pollutants and the threat they pose to the survival of mankind, and how steps can be taken to solve the air pollution problem in our society.

1 Air--Pollution 2 Man--Influence of environment

614

K 72 Air pollution (Kit)
Warren Schloat, 1972
2fs. col. 35mm. approx. 75fr. ea.; 2 cassettes; 1 7/8ips. dual track 2s. audible and inaudible

4-6

Teacher's guide.
SUMMARY: Program reveals the major causes of air pollution. Illustrations and explanations of its effects combined with suggested alternatives give your students a comprehensive knowledge of air pollution.

1 Pollution 2 Environment 3 Air--Pollution

614.7

FL 211 American bears (Motion picture)
Troll Associates, 1970
4min. si. color super 8mm. (Hoofs, claws and antlers)

4-6

Loop film mounted in cartridge. Guide.
SUMMARY: A comparison of two species of bears found in North America; the grizzly, one of the most dangerous of wild animals, and the black bear who actually comes in many shades of brown and red. The mischievous antics of their cubs are sometimes a nuisance in national park campgrounds. But viewers are cautious when the grizzly displays his great size, characteristic shoulder hump, and lumbering gait.

1 Bears 2 Animals--Habits and behavior

591

K 355 Animal box (Kit) Walt Disney
Educational Materials Co., 1967
20 super 8 filmloops; 12 study prints 11in. x 14in.; 3 books.

K-3

Teacher's guides and resource print guides.
CONTENTS: Filmloops: Fur seals and their young--Polar bear--Brown bear--Aligators, birth and surival--Pelicans--Lion--Kangaroo-Bottlenose dolphin--Birds feeding their young--Jaguar--Duckbilled platypus--Elephant family--Pride of

(Continued on next card)

K 355 Animal box (Card 2)

lions--Giraffe--Monkeys of the Amazon--Bison and their young--Koala bear--Hippopotamus underwater--Baboons and their young--Flower pollination by bees--Books: Follow me, everybody--Wild and tame animals--San Diego zoo colorful world of animals.

SUMMARY: Designed to help students satisfy their curiosity about animals and develop method of observation and simple research.

1 Animals--Habits and behavior 2 Animals

591

FS 200 Animal life (Filmstrip)
Filmstrip House, 1958
4fs. color 35mm. approx. 34fr. ea.

4-6

Captioned filmstrips.
CONTENTS: Where animals come from--Why animals need food, heat and air--How animals protect themselves--Classification-different kinds of animals.

1 Animals 2 Animals--Habits and behavior

591

FL 209 Animal speeds (Motion picture)
Troll Associates, 1970
4min. si. color super 8mm. (Animal instinct and survival techniques)

4-6

Loop film mounted in cartridge. Guide.
SUMMARY: As the grace and speed of a herd of running impalas is captured in slow motion, a cheetah moves through the tall grass of the African plains, searching for likely prey. In the distance, a herd of gazelles begins to run and the cheetah gives chase, steadily gaining on the leaders of the herd. Then a hyena chases a gazelle across the plains at full speed, the gazelle zig-zagging in a desperate effort to escape.

1 Animals--Habits and behavior

591

FS 198 Animal world series (Filmstrip)
McGraw-Hill, 1969
8fs. color 35mm. approx. 36fr. ea.

Teacher's guide.
K-3 CONTENTS: How animals are alike--What animals need--How animals start life--How animals use their senses--How animals behave--Life in water--Life on land--Conserving plants and animals.
SUMMARY: Covers all types of animal life through comparisons to human life.

1 Animals--Habits and behavior 2 Natural history

591

FL 325 Animals in Amboseli (Motion picture)
National Science Foundation and the Ford Foundation, 1968
20min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
Game reserve at Lake Amboseli, in Kenya Africa.

1 Animals--Habits and behavior 2 Geographical distribution of animals and plants 3 Wildlife--Conservation

591

FS 156 Animals of the forest (Filmstrip)
Encyclopaedia Britannica Films, Inc., 1960
2fs. color 35mm. 37fr. ea.

Captioned filmstrips.
K-3 CONTENTS: Woodland neighbors--Woodland friends.
SUMMARY: Habits and characteristics of many forest animals are told in story form.

1 Animals--Habits and behavior 2 Nature study

591

K 62 Animals of the forest (Kit)
McGraw-Hill, 1965
5fs. color 35mm. approx. 40 fr. ea.

Teacher's guide.
Captioned filmstrip.
4-6 CONTENTS: Black bear--Squirrels--The Raccoon--Beaver--Animal tracks.
SUMMARY: Shows the adaptation of various forest animals to their environment.

1 Animals--Habits and behavior

599

FL 215 Antelope (Motion picture)
Troll Associates, 1970
4min. si. color super 8mm. (Hoofs, claws, and antlers)

Loop film mounted in cartridge. Guide.
4-6 SUMMARY: Remarkable action shots reveal the swift grace of the pronghorn antelope as it runs at full speed, flashing his white rump fur to warn other antelope of danger. Charming baby fawns are universally appealing, while mature antelopes are noted for the curious structure of their horns. Should they inadvertently lock horns, death is the only solution to their tragic predicament.

1 Antelope 2 Animals--Habits and behavior

591

K 91 Art and environment (Kit)
Arts in Society, 1972
80 colored slides 2in. x 2in.; tape 7 1/2ips. single track; 4 posters 18in. x 12in.; 2 books--Environment and culture, 160p.

Study guide.
7-9 SUMMARY: Discusses, interprets, and illustrates the various functions of the arts in contemporary civilization.

1 Man--Influence of environment 2 Photography, Artistic 3 Human ecology

778

FL 335 At the caribou crossing place, part 3 (Motion picture) National Science Foundation and the Ford Foundation, 1967
15min. sd. col. super 8mm. (Man: A course of study)

4-6

Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs
919.8

FL 336 At the caribou crossing place, part 4 (Motion picture) National Science Foundation and the Ford Foundation, 1967
12min sd. col. super 8mm. (Mun: A course of study)

4-6

Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and sustoms
919.8

FS 202 Atoms and their energy (Filmstrip) Filmstrip House, 1961
4fs. color 35mm. approx. 30fr. ea.

Captioned filmstrips.
4-6 CONTENTS: Atoms, atoms everywhere--Elements: what are they?--Radioactive isotopes--Putting atoms to work.

1 Atoms 2 Neutrons 3 Protons
539

FL 357 Australian aborigines: making fire (Motion picture) Ealing Corp., 1972
4min. si. b&w super 8mm.

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Demonstrates how a fire is made by rubbing together two pieces of wood.

1 Fire 2 Combustion
536

MP 254 Autumn across America (Motion picture)
MP 255 Xerox Education Company, 1970
50min. sd. color 16mm. 2 reels (We need each other)

Discussion guide.
SUMMARY: Changes in nature at the beginning of a new season. Awakens a respect for
10-12 all living things that share our world, and mankind might well ponder the answers.

1 Man--Influence on nature 2 Ecology 3 Nature study 4 Autumn
574

FL 328 Autumn river camp, part 1 (Motion picture) Education Development Center, U.S. and the National Film Board of Canada, 1967
15min. sd. col. super 8mm. (Man: A course of study)

4-6

Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs 919.8

FL 329 Autumn river camp, part 2 (Motion picture)
Education Development Center, U.S. and the National Film Board of Canada, 1967
15min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs
919.8

FL 330 Autumn river camp, part 3 (Motion picture)
Education Development Center, U.S. and the National Film Board of Canada, 1967
15min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs
919.8

FL 331 Autumn river camp, part 4 (Motion picture)
Education Development Center, U.S. and the National Film Board of Canada, 1967
20min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs
919.8

K 52 Awareness of the world around you, set 1 and set 2 (Kit) Educational Progress Corporation, 1971
20 cassettes: 1 7/8ips. single track 2s.; 40 color study prints with lesson guide on back of each print.

K-3 Program guide.
SUMMARY: Designed to develop an awareness of health, safety, social behavior, nature study, community study, and ecology.

1 Man--Influence of environment 2 Human relations 3 Human ecology
301.15

FL 326 Baboon troop (Motion picture)
National Science Foundation and the Ford Foundation, 1968
22min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.

1 Baboons 2 Monkeys 3 Animals--Habits and behavior
599.8

FL 254 Backyard ecology: Grass (Motion picture)
FL 259 Ealing Corp., 1970
4min. si. color super 8mm.

Loop film mounted in cartridge.
Film notes mounted on cartridge case.
10-12 SUMMARY: Shows the importance of grass as a camouflage and as a source of food for animals

1 Grassland ecology 2 Ecology
574.5

77-708722

FL 255 Backyard ecology: Leaf litter (Motion picture)
FL 260 Ealing Corp., 1970
4min. si. color super 8mm.

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Shows the unique habitat which leaf litter provides for the animal world.

1 Leaf-mold 2 Zoology-Ecology 3 Ecology

574.5

70-708720

FL 256 Backyard ecology: Log (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm.

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: A survey of the typical inhabitants found in and around rotting trees, stumps, and logs.

1 Forest litter 2 Zoology-Ecology 3 Ecology

574.5

71-708718

FL 257 Backyard ecology: Sand (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm.

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: A survey of the inhabitants found on a typical sandy beach. Describes how they interact with their environment and with one another.

1 Seashore ecology 2 Ecology

574.5

75-708719

FL 258 Backyard ecology: Tidepool (Motion picture)
FL 261 Ealing Corp., 1970
4min.. si. color super 8mm.

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: A survey of the many organisms found in a tidepool along a rocky ocean shore.

1 Seashore ecology 2 Ecology

574.5

78-708717

FL 271 Banana farming in Honduras (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm. (Lands and peoples)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Shows the growing and cultivation of bananas, the harvest of the crop, and the handling of the stems of bananas which are loaded on to special banana boats for export to the United States.

1 Banana 2 Fruit culture--Honduras

634

70-707604

C 39 Basic reproduction of plants and lower animals (Charts) Instructional Aids, Inc., 1970.
6 prints col. 18 1/2in. x 24 1/2in.
(Reproduction and Human Development set I--chart 1-6)
4-6

Teacher's guide on verso of each picture.
CONTENTS:--1 Reproduction of simple living things.--2 Reproduction of a flowering plant.--3 Reproduction of the cabbage butterfly.--4 Reproduction of fish.--
(Continued on next card)

371.7

C 39 Basic reproduction of plants and lower animals (Charts) (Card 2)

5 Reproduction of domestic fowl.--6 Development of the chick in the egg.

1 Sex education 2 Animals--Reproduction
3 Plants--Reproduction

371.7

K 78 Beach (Kit)
Warren Schloat Productions, Inc., 1972
2fs. color 35mm. approx. 68fr. ea. and 2 cassettes: 1 7/8ips. dual track audible and inaudible

4-6

Teacher's guide.
SUMMARY: Investigates how the rhythm of the tides and the waves shape the beach and the lives of the animals and plants that live on it.

1 Seashore 2 Ocean waves 3 Waves
4 Marine biology

551.3

FL 210 Bighorn sheep (Motion picture)
Trpll Associates, 1970
4min. si. color super 8mm. (Hoofs, claws and antlers)

Loop film mounted in cartridge. Guide.
4-6 SUMMARY: Remarkable scenes reveal the wild American sheep which inhabit the highest, most rugged areas of the Rockies. Unlike domestic sheep, bighorn sheep do not grow wooly coats, but have hair like deer. Special elastic pads on their feet enable them to scale nearly inaccessible heights which protect them against natural enemies like the puma. Close-ups capture the unblinking gaze of a magnificent curly-horned ram.

1 Sheep behavior 2 Animals--Habits and

591

K 6 Biological water pollution test kit (Kit)
Scott Scientific Inc., n.d.
kit with various pieces

Teacher's guide.
CONTENTS: 10 cardboard stands--10 Petri quad-plates--10 Chromatorgraphy columns, sand-filled--20 spatulas--EMB agar, 125cc. bottle
7-9 --20 plastic cups, 1 oz.
SUMMARY: Students investigate types and degrees of biological pollution in the are around their school. Experiments will demonstrate that bacteria exist almost everywhere in our environment.

1 Pollution 2 Soils--Bacteriology
3 Water--Pollution 4 Biology--Experiments

574.4

TR 26 Biology (Transparencies)
Denover Geppert, 1965
110 color transparencies in 4 spiral bound books; flipatran (Biovue transparencies)

Opposite each visual is a correlated page of teacher-guide notes.
10-12 Transparencies are used with a flipatran viewing stage, a transparent plate which fits over the surface of the overhead projector.
CONTENTS: Human physiology--Chemistry for biology--Zoology--Botany.

1 Anatomy 2 Physiology 3 Biology 4 Chemistry, Analytic 5 Zoology 6 Botany

FL 203 Biosphere (Motion picture)
Hubbard Scientific Co., 1972
4min. si. color super 8mm. (Ecology and environmental studies)

4-6

Loop film mounted in cartridge.
Teacher's guide and student study guide.
SUMMARY: Shows examples of three of the four components of the biosphere: water, soil and air. Shows how the biosphere is a life support system.

1 Air 2 Water 3 Earth

574

C 28 Bird and nature charts (Charts)
Denoyer Geppert, 1949
27 colored charts 44in. x 26in. printed on two sides; heavy metal pole stand, disc base with casters.

Teacher's manual.
4-6 CONTENTS: Diving, swimming birds--Ducks --Geese, swans, wading birds--Owls and vultures--Hawks and eagles--Shore and marsh birds--Gallinaceous birds, pigeons--Woodpeckers--Goatsuckers, hummingbirds, cuckoos--Flycatchers and swallows--Jays, ravens, grackles--Nuthatches, wrens, titmice--Thrushes,

(Continued on next card)

C 28 Bird and nature charts (Card 2)

mimic thrushes--Shrikes, gnatcatchers, waxwings, vireos--Warblers--Tanagers and orioles--Finches--Sparrows and towhees--Foreign birds--Nests and eggs--Vertebrates --Insects, moths, butterflies--fruits and nuts--Medicinal plants, spices--flowers--Shells, corals, minerals.

1 Birds--Habits and behavior 2 Birds--Eggs and nests 3 Birds 4 Nature study
5 Insects
598

FS 188 Bird study (Filmstrip)
Singer, Society for Visual Education, 1958
5fs. color 35mm. approx. 43fr. ea.

Teacher's guide.
Captioned filmstrips.
K-3 CONTENTS: Looking at birds--Nests and eggs of birds--Beaks and feet of birds--Feathers and flight of birds--Migration of birds.
SUMMARY: Analyze various characteristics, habits and other facts about bird life.

1 Birds--Habits and behavior 2 Birds
568

FC 105 Birds (Flash cards)
Renwal Products Inc., 1968
48 colored flashcards 6in. x 3in. (Teach-me about)

Teacher's guide.
4-6 Descriptive notes on back of each picture.
SUMMARY: Designed to provide the student with a ready means of comparison and association of the size, coloration, voice, breeding, nesting, and feeding habits of 48 birds commonly found in the United States.

1 Birds--U.S. 2 Birds
598

K 63 Birds you should know (Kit)
McGraw-Hill, 1964
4fs. color 35mm. approx. 30fr. ea.

Teacher's guide.
Captioned filmstrip.
4-6 CONTENTS: Hawks--Kingfisher--Owls--Birds of the city.
SUMMARY: Developes an understanding of the importance of birds in the balance of nature and describes bird relationships, characteristics and habits.

1 Birds 2 Birds--Habits and behavior
568

C 42 Birth and continuing human development (Charts) Instructional Aids, Inc., 1970.
6 prints col. 18 1/2in. x 24 1/2in.
(Reproduction and Human Development, set V--chart 25-30)

4-6
Teacher's guide on verso of each picture.
CONTENTS:--25 Birth: first stages.--26 Birth: final stages.--27 Infant nursing and breast diagram.--28 Human growth stages.--29 Boy-to-man development.--30 Girl-to-woman development.

1 Sex education 2 Reproduction
371.7

FL 214 Bison (Motion picture)
Troll Associates, 1970
4min. si. color super 8mm. (Hoofs, claws and antlers)

Loop film mounted in cartridge. Guide.
4-6 SUMMARY: Bison, wild cattle that once provided American Indians with food, clothing and shelter, still roam fenced preserves in national parks and government-protected land. Brownish-black hair covers the head, neck and hump of the bison, adding to its formidable appearance, but it is actually an easy-going, social animal--except when annoyed. Scenes of a rare white bull remind us of the Indian's belief that a white bull possessed magical powers.

1 Bison behavior 2 Animals--Habits and

591

K 144 But it isn't yours... (Kit)
Guidance Associates, 1972
2fs. color 35mm. approx. 58fr. ea. and 1 cassette: 1 7/8ips. dual track (First things: Values)

K-3 Teacher's guide.
SUMMARY: Presents two stories in which young people are faced with decisions about other peoples property.

1 Human relations 2 Behavior 3 Values

301.15

SP 24 Bones (Specimens)
Webster's Division McGraw-Hill, 1968
various bones of animals in kit

Teacher's guide.
CONTENTS: 2 ea. Mink, cat, rabbit skeletons, Disarticulated. 6 cardboard velour-lined work trays 27in. x 18in.
4-6 SUMMARY: Study of bones from simple identification through skeletons. Includes studies of bone use and structure, identifying bones, and assembling substructures and skeletons.

1 Bones

611

MP 205 Buttercup (Motion picture)
Churchill Films, 1971
11min. sd. color 16mm.

Teacher's guide.
4-6 SUMMARY: A buttercup slipping along the silvery surface of the stream and then the stream broadens--in a jarring finish it is swallowed in the stench, sludge and garbage of industrial man.

1 Water--Pollution 2 Factory and trade waste 3 Man--Influence on nature

614

FS 107 The busy wind, our invisible friend. (Filmstrip) Troll Associates, 1969
41fr. color 35mm. (Learn-about Filmstrip Library)

K-3 Describes good and bad effects of wind. Kindergarten thru fourth grade.

1 Winds

551.37

FL 270 Cabinetmaker (Motion picture)
Ealing Corp., 1968
4min. si. color super 8mm. (Pioneer crafts)

10-12 Loop film mounted in cartridge.
Film notes on cartridge case.
SUMMARY: Tells about the craft of the pioneer American cabinetmaker.

1 Cabinet-work 2 Frontier and pioneer life

372.6

C 43 Cells, reproduction and heredity (Charts)
Instructional Aids, Inc., 1970.
6 prints col. 18 1/2in. x 24 1/2in.
(Reproduction and Human Development, set VI--chart 31-36)

4-6

Teacher's guide on verso of each picture.
CONTENTS:--31 Human body cell-generalized.--32 Genes and chromosomes.--33 Mitosis: Normal cell division.--34 Meiosis: Formation of gametes.--35 DNA: Master Molecule of life--with RNA.--36 Inherited characteristics.

1 Sex education 2 Cells 3 Reproduction

371.7

FL 269 Chain of experts: division of labor (Motion picture) Paling Corp., 1969
4min. si. color super 8mm. (Elementary economics)

Loop film mounted in cartridge.
Film notes in cartridge card.

10-12

SUMMARY: Presents the basic concepts that division of labor means that each person does only one particular task, each person can best use his particular skills to produce faster and better: and that because of specialization people and societies become interdependent.

1 Division of labor 2 Labor and laboring classes

372.8

72-700665

K 223 Changing seasons (Kit)
Singer, Society for Visual Education, 1971
4fs. color 35mm. approx. 56fr. ea. and 2 cassettes: 1 7/8ips. single track 2s.

Teacher's guide.

K-3

CONTENTS: Birds know it's spring--Summer is a time for exploring--Autumn in my neighborhood--Winter is a changing time.
SUMMARY: Designed to help students become aware of the changing world about them.

1 Seasons 2 Nature study

574.54

K 108 Changing the system (Kit)
Zenger Productions, Inc., 1972
94fr. color 35mm. and cassette: 1 7/8 ips. dual track audible and inaudible 19min.

Teacher's guide.

10-12

SUMMARY: Seeks to stimulate study and discussion about social and political reform as an alternative both to violent revolution and cynical apathy.

1 Political science 2 Revolution

320

K 7 Chemical water pollution test kit (Kit)
Scott Scientific Inc., n.d.
kit with various pieces

Teacher's guide.

7-9

CONTENTS: 20 chromatography columns, resin filled--10 cardboard stands--20 capillary tubes--20 6ml. plastic vial with cap --20 graduated plastic cups, 1oz.--Medicine dropper--20 spatulas--Silver nitrate, 1/2oz. --Methylene blue, 1/2oz.--Chloroform, 1/2oz.

(Continued on next card)

K 7 Chemical water pollution test kit (Card 2)

Barium chloride, 1/2oz.--Bottle polluted water--EBT chemical mixture powder, 10gr.
SUMMARY: Allows students to investigate several types, sources, and degreees of water pollution.

1 Water--Pollution 2 Pollution
3 Chemical--Experiments

542

FL 284 Chipping a stone arrowhead (Motion picture)
Ealing Corp., 1969
4min. si. color super 8mm. (Woodland Indians)

Loop film mounted in cartridge.
10-12 Film notes on cartridge case.
SUMMARY: Demonstrates the technique of making an arrowhead and shows how it is attached to the shaft.

1 Arrow-heads 2 Indians of North America--Antiquities

970.3

K 57 Circulatory systems (Kit)
Denoyer-Geppert, 1971
64 colored slides 2in. x 2in. in carousel

Teacher's manual.
Summary:
10-12
- Centers upon processes which provide cells with nutritive materials and oxygen, and which eliminate cell wastes
- Studies unicellular organisms in immediate contact with their water environment, and progresses to the transport systems of large, multicellular water and land organisms
- Contrasts the circulatory systems of water organisms and land organisms
- Gives special attention to the structure and function of the vertebrate heart, to blood with its specialized components, and to specialized structures of advanced circulatory systems.

1 Anatomy, Comparative 2 Zoology 3 Animals

591

K 135 Choice is yours; drug identification (Kit)
Educational Progress Corporation, 1970
fold out case of different facsimiles of drugs and 10 cassettes: 1 7/8ips. dual track

7-9 Teacher's guide and fact sheet.
CONTENTS: Cassettes: Parent-child relationships (parent's viewpoint - child's viewpoint)--Suicide--Venereal disease--Alcohol--Smoking--Hard drugs (Heroin)--Hallucinogenic drugs (LSD)--Ups and downs (Stim-

(Continued on next card)

MP 216 Cities have no limits (Motion picture)
MP 217 NBC Educational Enterprises, 1969
53min. color sd. 16mm. 2 reels
(Ordeal of the American city)

Telecast on NBC in the White paper series in a special series entitled Ordeal of the American city.
7-9 SUMMARY: Examines various urban problems in terms of how they happened and what should and can be done about them.

1 Cities and towns--U.S. 2 Urban renewal

309

78-702303

K 135 Choice is your; drug identification (Card 2)

ulants and depressants)--Marijuana.
SUMMARY: Contains factual narratives on the drugs simulated in the drug identification kit. There are addicts speaking to the student telling it like it is. Kit contains facsimiles of drugs and narcotics most commonly abused.

1 Drugs 2 Narcotics 3 Drug abuse

615

K 111 Cities: people and their problems (Kit)
New York Times, 1970
5fs. color 35mm. approx. 70fr. ea. and 5 phonodisc: 12in. 33 1/3rpm.

Teacher's guides.
CONTENTS: Living in the cities--Working in the cities--Schools in the cities--Leisure in the cities--Citizens in the cities.
7-9 SUMMARY: The problems of people living and working in cities, examining housing, schools, leisure, the quality or urban life and the opinions of urban experts.

1 Cities and towns 2 Education, urban 3 Housing--U.S. 4 Labor and laboring classes--U.S. 5 Leisure

301.3

72-736760

FL 283 City as a human habitat (Motion picture)
Ealing Corp., 1970
4min. sl. color super 8mm. (Urban ecology)

Film loop mounted in cartridge.
Film notes on cartridge case.

10-12 SUMMARY: Examines the ecological results of overcrowding in our cities, including problems of space, movement, and waste disposal. The needs of people living in the city are shown to produce large amounts of waste material which most cities cannot handle.

1 Human ecology 2 Refuse and refuse disposal 3 Pollution

614

K 360 City ecology (Kit)
Selective Educational Equipment, 1973
kit with various materials

Teacher's guide.

4-6 CONTENTS: Activity cards, equipment such as: rain gauges, soil samplers, insect traps, and a uniquely designed instrument which measures wind speed and indicates wind direction.

SUMMARY: An ecology unit designed for

(Continued on next card)

K 360 City ecology (Card 2)

students living in the inner-city, with many types of different experiments for students to do, while learning about their environment.

1 Ecology 2 Man--Influence of environment 3 [illegible]ture study

301.3

GA 183 Clean up (Game)
Urban Systems Inc., 1971
Games with various parts

Teacher's guide.

K-3 CONTENTS: Spinner; 7 white plastic straws with two joiners; 24 trash cards 2 1/4in. x 3in.; 24 beauty cards 2 1/4in. x 3in.; 6 town blocks 4 1/2in. x 6in.

SUMMARY: Played on table like hopscotch. Involves students in the concepts of civic price and respect for their environment.

1 Man--Influence of environment 2 Conservation of natural resources 3 Games, educational

301

K 30 Clearwater--a dream for a river (Kit)
Denoyer-Geppert, 1971
2fs. color 35mm. approx. 124fr. ea.; 2 phonodiscs: 12in. 33 1/3rpm. approx. 17min. ea.

Teacher's guide.

4-6 Narrated by Pete Seeger.

Summary: Pete Seeger narrates and sings to emphasize the need for cooperation among all people in the fight to preserve our lands and our waters. The program treats the problem of Hudson River pollution; how it got the way it is; efforts being made to retard and correct the situation; what a broadly based, humanistic approach can accomplish.

1 Pollution 2 Conservation of natural resources 3 Environment

301.3

K 120 Clouds and rain and...things (Kit)
Guidance Associates, 1972
2fs. color 35mm. approx. 29fr. ea. and 2 cassettes: 1 7/8ips. dual track (Wonder series)

Teacher's guide.

4-6 SUMMARY: Reviews history of weather prediction, modern techniques including radar, satellite photos, methods of causing weather, weather's effects on our feeling.

1 Meteorology 2 Weather forecasting 3 Weather

551.6

FL 250 Coastal features (Motion picture)
Ealing Corp., 1970
4min. sl. color super 8mm. (Picture dictionary of geographical terms)

Loop film mounted in cartridge.
Film notes on cartridge case.
7-9 SUMMARY: Identifies 21 features found in coastal regions, including archipelago and island; cape; bay; promontory; strait; fiord; breakwater; harbor and port.

1 Coasts--Terminology 2 Coasts

551.4

C 38 Comparative reproduction (Charts) (Card 2)

and human fetuses in the uterus.--11 Animal and human reproductive systems compared.--12 Overview of sexual reproductive systems in animals.

1 Sex education 2 Animals--Reproduction

371.7

FS 197 Communities of living things (Filmstrip)
McGraw Hill, 1961
6fs. color 35mm. approx. 38fr. ea.

Teacher's guide.
CONTENTS: Animals, plants and their environment--Animal and plant relationships--
4-6 Animals and plants of the forest, field, pond, city.
SUMMARY: Presents a discussion of the interdependence of living things both to each other and their environment.

1 Ecology 2 Animals--Habits and behavior
3 Plants

574.5

S 306 Complex life forms (Slides)
Imperial Film Company, n.d.
80 col. slides 2in. x 2in. in carousel

CONTENTS: Bee--Frog--Insects: group I and II.
10-12

1 Bees 2 Biology 3 Frogs 4 Insects

574

C 38 Comparative reproduction (Charts)
Instructional Aids, Inc., 1970.
6 prints col. 18 1/2in. x 24 1/2in.
(Reproduction and Human Development, set II--chart 7-12)

4-6

Teacher's guide on verso of each picture.
CONTENTS:--7 Reproductive system of a mammal--the cat.--8 Pre-natal development of kittens.--9 Comparative vertebrate embryos and fetuses.--10 Animal
(Continued on next card)

371.7

K 132 Composition starters: argumentation (Kit)
Doubleday Multimedia, 1970
4 Walt Disney filmloops; 144 teacher, student and duplicate copies cards 7½in. x 5½in.

Teacher's guide.
10-12 CONTENTS: Filmloops: Survival on the coral reef--Sloth--Carnivorous plant--Manta and Stingrays; 48 cards in each group: Teacher, student and duplicate cards (12 cards for each filmloop).

(Continued on next card)

K 132 Composition starters: argumentation (Card 2)

SUMMARY: Designed to sharpen the student's powers of observation of the natural world. Provides English teachers with a tool to help students learn to open their eyes and then write about what they see.

1 English language--Composition and exercises
2 Nature study

808

K 131 Composition starters: description (Kit)
Doubleday Multimedia, 1970
4 Walt Disney filmloops; 144 teacher, student and duplicate copies cards 7½in. x 5½in.

10-12

Teacher's guide.
CONTENTS: Filmloops: Courting rituals of birds--Arctic thaw, part II--Osprey-Bird of prey--Grand Canyon-geologic formations; 48 cards in each group: Teacher, student and duplicate cards (12 cards for each filmloop).

(Continued on next card)

K 131 Composition starters: description (Card 2)

SUMMARY: Designed to sharpen the student's powers of observation of the natural world. Provides English teachers with a tool to help students learn to open their eyes and then write about what they see.

1 English language--Composition and exercises
2 Nature study

808

K 133 Composition starters: exposition (Kit)
Doubleday Multimedia, 1970
4 Walt Disney filmloops; 144 teacher, student and duplicate copies card 7½in. x 5½in.

10-12

Teacher's guide.
CONTENTS: Filmloops: Hawk attacking rattlesnake--Marine Iguana of the Galapagos islands--Lions hunting gnu--Sloth versus jaguar.; 48 cards in each group: Teacher, student and duplicate cards (12 cards for each filmloop).

(Continued on next card)

K 133 Composition starters: exposition (Card 2)

SUMMARY: Designed to sharpen the student's powers of observation of the natural world. Provides English teachers with a tool to help students learn to open their eyes and then write about what they see.

1 English language--Composition and exercises
2 Nature study

808

K 134 Composition starters: narration (Kit)
Doubleday Multimedia, 1970
4 Walt Disney filmloops; 144 teacher, student and duplicate copies cards 7½in. x 5½in.

10-12

Teacher's guide.
CONTENTS: Filmloops: Rattlesnake--Rhinoceros--Jaguar fighting boa constrictor--Anthill protection-pt. 1; 48 cards in each group: Teacher, student and duplicate cards (12 cards for each filmloop).

(Continued on next card)

K 134 Composition st...ers: narration (Card 2)

SUMMARY: Designed to sharpen the student's powers of observation of the natural world. Provides English teachers with a tool to help students learn to open their eyes and then write about what they see.

1 English language--Composition and exercises
2 Nature study

808

MP 248 Conch shell (Motion picture)
King Screen Productions for Holt, Rinehart and Winston, 1970
5min. sd. color 16mm.

Study guide.

K-3

SUMMARY: A city boy listens to a conch shell and fantasizes that he is at the ocean.

1 Shells 2 Ecology

564

73-712852

K 84 Concepts in ecology (Kit)
Centron Educational Films, distributed by Learning Arts, 1971
4fs. color 35mm. approx. 63fr. ea. and 5 cassettes: 1 7/8ips. dual track

Teacher's guide.

4-6

CONTENTS: Life in a log--Life in a pond--From rock to forest--From sand dune to forest.
SUMMARY: Students learn about the biological community, the interrelationships of plants and animals in an environment, the cycles of life within a community and the gradual succession of one community supplanting another.

1 Animals--Habits and behavior 2 Nature study
3 Adaptation (Biology) 4 Plants

591

FL 268 Coniferous forest: plant and animal adaptations (Motion picture) Ealing Corp., 1970
4min. si. color super 8mm. (Ecology of North America)

Loop film mounted in cartridge.
Film notes on cartridge case.

7-9

SUMMARY: Describes the organization of a coniferous forest explaining the place of conifers in this organization. Shows the index animal species of the coniferous forest. Locates and summarizes the decisive climate features.

1 Forest ecology--North America 2 Coniferae
3 Ecology

574.1

75-706418

PI 90 Concepts in science, beginning level, yellow big book (Picture) Harcourt, Brace and World, Inc., 1967
Large book with loose pages 71p. colored 22in. x 17in.

K-3

CONTENTS: Investigating matter--Investigating force--Investigating animals--Investigating plants--Investigating children as living things.
SUMMARY: To help young children observe the world around them.

1 Nature study 2 Science--Study and teaching

507

K 218 Conservation and pollution (Kit)
Singer, Society for Visual Education, 1970
kit of various multi-media

Teacher's guides.

4-6

CONTENTS: 10 filmstrips: Roots of our urban problems--Air pollution menace--Water pollution, a complex problem--Solid waste--a new pollutant--Transportation crisis--Housing crisis--Smog and plant growth--Air pollution and living tissue--Measuring water pollution--Fresh water from the sea--5

(Continued on next card)

K 218 Conservation and pollution (Card 2)

cassettes: 1 7/8ips. single track 2s. ea. --6 set study prints (8ea. set): Nature's communities: A forest develops, a deciduous forest, a freshwater pond, an American desert, a tropical rain forest, a coral reef--6 transparencies: Conservation.

1 Water--Pollution 2 Air--Pollution 3 Pollution 4 Conservation of natural resources 5 Man--Influence of environment

○ 577.24

FS 186 Conservation for beginners (Filmstrip) Singer, Society for Visual Education, 1953
6frs. color 35mm. approx. 28fr. ea.

Captioned filmstrips.
CONTENTS: Sonny squirrel and the pine trees--The deer and the haystack--A picnic for Dick and his friends--The lamb and the bluebells--Susan and the forest fire--The muddy raindrops.
K-3 SUMMARY: Stories featuring friendly animals and children introduce basic concepts of forestry, land erosion and animal preservation.

1 Conservation of natural resources 2 Nature conservation 3 Man--Influence on nature

○ 333.7

FL 267 Conservation: man helps young turtles (Motion picture) Ealing Corp., 1969
4min. si. color super 8mm. (Earth science)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Shows Jacques Cousteau and the crew of the Calypso as they design and perform undersea experiments dealing with the conservation of turtles.

1 Sea turtles 2 Marine biology 3 Sea ecology

○ 333.7

79-703547

MP 203 Conserving our environment: use and reuse (Motion picture) Coronet Films, 1972
13 1/2min. sd. color 16mm.

Teacher's guide.
7-9 SUMMARY: Relates the similarities between the environment in a fishbowl and that of man's world and to examine the various means man uses to conserve his environment.

1 Man--Influence of environment 2 Conservation of natural resources 3 Ecology

○ 573

MP 227 Controversy over industrial pollution: a case study (Motion picture) Encyclopaedia Britannica Educational Corp., 1972
17min. sd. color 16mm.

Teacher's guide.
10-12 SUMMARY: Examines the scientific, social and economic issues involved in a specific environmental problem.

1 Pollution 2 Man--Influence of environment 3 Ecology

○ 614

K 119 Crisis of the environment (Kit)
New York Times, 1970
5 filmstrips color 35mm. approx. 60fr. ea. and 5 phonodiscs: 12in. 33 1/3rpm;

7-9 Discussion manuals.
CONTENTS: Man: An endangered species. --Breaking the biological strand.--Vanishing species.--Preserve and protect.-- The
(Continued on next card)
333

○

K 119 Crisis of the environment (Kit) (Card 2)

population explosion.
Summary: Pollution of air and water, effects of pesticides and fertilizers on balance of nature, extermination of wildlife, ravaging of land and forest, preserving remaining wilderness, overpopulation.

1 Environmental policy 2 Natural resources 3 Ecology 4 Population

333

K 247 Dash McTrash and the pollution solution: learning to care about pollution (Card 2)

SUMMARY: An enchanting way for students to learn about ecology through stories and songs.

1 Ecology 2 Pollution

574

MP 219 Cry of the marsh (Motion picture)
Bill Snyder Films, Inc., 1971
12min. sd. color 16mm.

Teacher's guide.

7-9 SUMMARY: The dramatic story that results when a wildlife-supporting marsh is drained and converted to farmland.

1 Man--Influence of environment 2 Conservation of natural resources

333.7

K 74 The deciduous forest (Kit)
Warren Schloat, 1972
92fr. color 35mm.; cassette: 1 7/8ips. dual track 2s. audible and inaudible

4-6 SUMMARY: Program explains the conditions necessary to support a forest, the centuries-long process by which a burned forest renews itself and the effects on animal life, of the continually changing forest.

1 Forests and forestry 2 Ecology 3 Natural resources

634.9

K 247 Dash McTrash and the pollution solution: learning to care about pollution (Kit)
Spoken Arts, Inc., 1972
5fs. color 35mm. approx. 55fr. ea. and 5 cassettes: 1 7/8ips dual track; 30 coloring books; 5 ditto masters; 30 E buttons

K-3 Teacher's manual.
CONTENTS: Filmstrips: Dash McTrash and the bogs, and Anna Mae, and Uncle Don and the big clean up--"E" for ecology--Ditto masters: Letter for parents--4 song activity sheets

(Continued on next card)

K 316 Denver mile high city (Kit)
Teaching Resources Films and Educational Services of the New York Times, 1972
60fr. color 35mm. and cassette: 1 7/8ips. dual track; phonodisc: 12in. 33 1/3rpm
(Cities of America, part 2)

7-9 Teacher's guide.
SUMMARY: Through color photographs, maps, and historical pictures, this program studies the unique characterists which shape Denver, Colorado.

1 Denver--Description 2 Colorado--Description and travel

917.88

FL 252 Desert features (Motion pictures)
Ealing Corp., 1970
4min. sl. color super 8mm. (Picture dictionary of geographical terms)

Film loop mounted in cartridge.
Film notes on cartridge case.

7-9 SUMMARY: Shown and labeled are 16 features of the desert environment, including plateau; canyon; bluff; mesa; butte; goblin; arroyo; dunes; arches; and pinnacle.

1 Deserts--Terminology 2 Deserts

551.4

K 46 Digestive systems (Kit)
Denoyer-Geppert, 1971
66 colored slides 2in. x 2in. in carousel

Teacher's manual.
Summary:

10-12
- Examines methods of food-consumption and digestion among animals of varying size and complexity
- Demonstrates the increasingly complex digestive system in multicellular organisms, especially the highly developed one-way digestive tubes and associated specialized organs.
- Takes note of specialized food-getting structures
- Discusses the biochemistry of basic foods, and emphasizes the breakdown of macromolecules to particles of diffusible size.

1 Anatomy, Comparative 2 Zoology 3 Animals

591

MP 208 Deterioration of water (Motion picture)
Davidson Films in cooperation with American Meteorological Society. Released by Learning Corporation of America, 1971
16min. sd. color 16mm.

10-12 Teacher's guide.
SUMMARY: Explains the chemical, physical, and biological causes of water pollution and discusses the result of such pollution.

1 Water--Pollution

614.7

K 70 Dinosaurs and other reptiles (Kit)
Random House, Inc., 1971
50fr. color 35mm.; cassettes; 1 7/8ips. dual track; 5 books (Micro-learning unit)

Guide.
4-6 CONTENTS: Filmstrip and cassette: Dinosaurs and other reptiles: Books: All about dinosaurs--All about snakes--In the days of the dinosaurs--Reptiles around the world--Reptiles do the strangest things.

1 Reptiles 2 Snakes 3 Dinosaurs

598.1

FS 157 Different kinds of animals (Filmstrip)
Encyclopaedia Britannica Inc., Films, 1972
6fs. color 35mm. approx. 38fr. ea.

Captioned filmstrips.
K-3 CONTENTS: Learning about mammals--Birds--Amphibians--Reptiles--Insects--Some water animals.
SUMMARY: Basic factors for distinguishing animals from each other and the properties which characterize different animals within each group.

1 Animals--Habits and behavior 2 Mammals 3 Birds 4 Amphibians 5 Reptiles 6 Insects

591

GA 141 Dirty water (Game)
Urban Systems Inc., 1970
game with various parts

Teacher's guide.
7-9 CONTENTS: Playing board 19in. square (Folds), 4 charts 6in. x 4in.; 40 abatement cards 3¼in. x 2¼in.; 208 organism pieces 3/4in. x 3/4in.; 4 tokens; 1 die; paper money.
SUMMARY: Acquaints the players with some of the complexities with which an administrator must deal in controlling water pollution to keep local bodies of water in a normal state of ecological balance.

1 Water--Pollution 2 Man--Influence of environment 3 Games, Educational

614

PI 21 Discovering our environment (Pictures)
Coronet Films, 1971
40 colored study prints 18in. x 13in. divided into 4 sets; Game "survival" 2 playing boards 18in. x 13in.

4-6

Study guide
CONTENTS: Set 1-What is our environment? --Set 2-Living things use the environment--Set 3-Man misuses the environment--Set 4-Restoring and conserving the environment.

(Continued on next card)

PI 21 Discovering our environment (Card 2)

SUMMARY:Helps to clarify complex concepts about our environment. Each set includes an introductory picture and three each devoted to air, land and water. Game is designed to reinforce concepts about, and attitudes toward, the environment presented in the study prints.

1 Ecology 2 Man--Influence of environment 3 Natural resources

573

MP 234 Discovering the forest (Motion picture)
Encyclopaedia Britannica Educational Corp., 1966
11min. sd. color 16mm.

4-6

Teacher's guide.
SUMMARY: Presents the story of the forest community: discussing its conditions, forms of life, and interrelationships.

1 Forest ecology 2 Animals--Habits and behavior

574.5

FIA 67-1228

MF 238 Divided world (Motion picture)
Svensk Filmindustri, Stockholm. Released in the U.S. by Pyramid Films, 1969
10min. sd. b&w 16mm.

7-9

SUMMARY: Presents a poetic interpretation of the twin themes of the balance of nature and its inevitable conflicts.

1 Ecology 2 Nature study

574.5

71-710722

MP 264 Donald in mathmagic land (Motion picture)
Walt Disney Production, 1973
26min. sd. color 16mm.

7-9

SUMMARY: Designed to create in students a new appreciation of the value and importance of mathematics in their daily lives.

1 Mathematics

510

K 32 Earth and the universe, alpha (Kit)
Benefic Press, 1971
Kit with various media

Guide and index with bibliography in one book.
Captioned filmstrips.

7-9

CONTENTS: 4 filmstrips color 35mm, approx. 40fr. ea.--20 texts (5) copies of each 4 titles: Exploring and understanding: Air-Water-Rocks and minerals-Our changing earth--5 copies of science through experiments--1 copy of Science and scientists--Class assignment chart 19in. x 14in.

1 Science--Study and teaching 2 Air 3 Water 4 Rocks 5 Earth

507

K 33 Earth and the universe, beta (Kit)
Benefic Press, 1971
kit with various media

Guide and index with bibliography in one book.
Captioned filmstrips.
7-9 CONTENTS: 4 filmstrips color 35mm, approx. 43fr. ea.--25 texts (5) copies of each 4 titles: Exploring and understanding: Oceanography-Weather and climate-Solar system-Beyond the solar system--5 copies of science through experiments--1 copy of Science and scientists--Class assignment chart 19in. x 14in.

1 Science--Study and teaching 2 Oceanography 3 Weather 4 Solar system

507

K 219 Earth science (Kit)
Singer, Society for Visual Education, 1970
kit of various multi-media

Teacher's guides.
7-9 CONTENTS: 12 filmstrips: Rocks and mineralization--Rock families--Earth's crust--Common minerals--Earth, a great storehouse--Earth's diary--Changing the face of the earth--Rivers of water and ice--Underground water--Wind and waves--Volcanoes and earthquakes--Mountains--1 cassette: 1 7/8ips. single track 2s.--8 slidesets (20 slides ea.) 2in. x 2in. with guide in folder: Rocks and their

(Continued on next card)

MO 18 Earth history (Model)
Hubbard Scientific Company, 1967
3 dimensional board 18in. x 24in. with set of 20 reproduction of fossils

Lesson plan
4-6 SUMMARY: Fossils are mounted in a model depicting rock layers from Cambrian time to present. Simplified time scale correlates ages of the fossils and typical scenes of the periods are illustrated.

1 Fossils 2 Extinct animals 3 Geology

560

K 219 Earth science (Card 2)

minerals--Geologic weathering--Erosion of the earth's crust--Volcanism and diastrophism--Landforms on the earth's crust--Weathering and erosion--Sedimentary processes and products--Igneous and metamorphic processes and products--3 sets study prints (8ea. set): Important minerals--Common rocks--Land forms of running water--2 innovation cassettes: Exploring the earth.

1 Earth 2 Geology 3 Earth--Age 4 Earth--Internal structure

525

PI 87 Earth history (Pictures)
Instructional Aids, Inc., 1968
30 colored study prints 13in. x 18in. divided into 5 sets (6) prints ea.

Guide on reverse side of each print.
7-9 CONTENTS: The record in the rocks--Life: present and past--The Precambrian and paleozoic eras--The Mesozoic--The Cenozoic.

1 Earth--Age 2 Geology

550.1

PI 88 Earth science (Pictures)
Instructional Aids Inc., 1965
108p. colored study prints 13in.x18in. divided into 18 sets (6) prints each set.

Guide on reverse side of each print.
7-9 CONTENTS: Glaciers--Volcanoes--Weather instruments--Erosion--Deserts of the world--Cloud formations--Igneous and metamorphic rocks--Polar regions--Arctic and antarctic--Ground water--The sea--Sedimentary rocks--Earth movements--Minerals--Soils--Astronomy--Forests--Geological instruments--weather phenomena.

1 Arctic regions 2 Antarctic regions 3 Geology 4 Physical geography 5 Earth

551.4

TR 25 Earth science (Transparency)
Hubbard Scientific Company, 1965
82 colored transparencies with overlays

Teacher's guide of each set of transparencies.

7-9 CONTENTS: Meteorology (9)--Astronomy, set 1 (11), set 2 (10)--Geology (18)--Oceanography, set 1 (4), set 2 (18)--Map reading set 1 (4), set 2 (8).

1 Meteorology 2 Astronomy 3 Geology 4 Oceanography 5 Map reading

525

FS 196 Earth's resources series (Filmstrip)
McGraw Hill, 1961
6fs. color 35mm. approx. 40fr. ea.

Teacher's guide.

4-6 CONTENTS: Ocean resources--Freshwater resources--Mineral and rock resources--Fuel resources--Atmospheric resources--Soil resources.
SUMMARY: Presents selected earth science concepts associated with some of the earth's natural resources and points out the ecological problems effected by the improper use of these resources.

1 Ecology 2 Natural resources 3 Conservation of natural resources

333

FS 199 Earth's surface (Filmstrip)
Filmstrip House, 1958
4fs. color 35mm. approx. 31fr. ea.

Captioned filmstrips.

K-3 CONTENTS: Land and water we see--Rocks and how they change--Soil for plants--How the earth's surface changes.

1 Earth 2 Soil 3 Rocks 4 Water

525

K 16 Ecological communities (Kit)
Coronet Films, 1972
6fs. color 35mm. approx. 53fr. ea. and 6 cassettes: 1 7/8ips. dual track 11min.

Teacher's guide.

4-6 CONTENTS: Deciduous forest--Ponds and lakes--Stream--Meadow--Thicket--Northern coniferous forest.
SUMMARY: Reveals the interdependence of plant and animal life and the adaptations for survival.

1 Adaptation (Biology) 2 Ecology

574

K 222 The ecological crisis (Kit)
Singer, distributed by the Society for Visual Education, 1971
6fs. color 35mm. approx. 55fr. ea.; 3 phonodiscs: 12in. 33 1/3rpm.

Teacher's guide.

7-9 CONTENTS: Population statistics; Population trends; Some ecological considerations; Evolution and extinction; Pesticides; Pollution.
SUMMARY: Over-population, diminishing food supplies, environmental pollution, urban congestion, these factors influence the quality of human life and the manner in which men live and work. Kit creates an awareness of ecological problems, suggests remedial action and helps young people consider the responsibilities they face.

1 Pollution 2 Man--Influence on nature 3 Ecology 301.3 4 Environmental policy

K 94 Ecological populations and communities (Kit)
Denoyer-Geppert Audio-Visuals, 1970
62 colored slides 2in. x 2in. in carousel
(Investigations in ecology: a biological approach)

10-12 With teacher's guide.

SUMMARY: Defines a biological community as a group of interdependent species, or populations, inhabiting a particular ecosystem.

(Continued on next card)

K 94 Ecological populations and communities (Card 2)

Explores the effects of changes in biotic and abiotic factors in the environment of the community, and explains the role of food supply and natural enemies in creating a population explosion. Illustrates competition among populations for the same ecological niche.

1 Animal populations 2 Ecology

574.5

GA 181 Ecology (Game)
Urban Systems Inc., 1970
game with various parts

Teacher's guide.
CONTENTS: Playing board 19in. square (folds) colored rings; 65 cards: luck, genious, and work 3 1/2in. x 1/2in.; money and ecology points; 2 charts 6in. x 4in.
7-9 SUMMARY: Tests students understanding of the principals of ecology in a board game by leading a population safely through the history of conflict between man's inventive genius and his environment.

1 Ecology 2 Man--Influence of environment
2 Games, Education-al

574

K 98 Ecological succession (Kit)
Denoyer-Geppert Audio-Visuals. Released by Denoyer-Geppert Co., 1970
58 colored slides 2in. x 2in. in carousel.

With teacher's guide.

10-12 SUMMARY: Defines the principles of biological succession, and traces actual successions on a bare rock, in a sandy lake, and in a drop of pond water. Introduces such terms as pioneer community, climax stage, and convergence. Explains the importance of man's role in the process of succession.

1 Ecological succession 2 Ecology

574.5

TR 140 Ecology (Transparencies)
Ward's Natural Science, 1963
11 colored transparencies; 11 duplicating masters.

Teacher's guide with each transparency.
CONTENTS: Ecological succession--Geographical (Topographical) succession--Ecological
10-12 equivalents--Tropic levels--Biomass and numbers--Interspecific interactions--Niche versus habitat--Ecotone and edge effect--Zonation- Fresh water--Zonation-marine--Zonation-Mountains.

1 Adaptation (Biology) 2 Botany--Ecology
3 Ecology

574

K 106 Ecological systems, group 1 (Kit)
Imperial Film Co., 1967
4fs. color 35mm. approx. 46fr. ea. and 4 cassettes: 1 7/8ips. dual track approx. 14min.

CONTENTS: Ecology of a seashore--Ecology of a forest--Ecology of a pond--Ecology of a
7-9 desert.
SUMMARY: Explains why particular forms of plant and animal life are found in certain environments. The interdependence of all living organisms is shown. Helps students to become more informed observers of their own environment.

1 Desert ecology 2 Fresh-water ecology
3 Seashore biology 4 Forest ecology

574

K 114 Ecology and environment (Kit)
AVI Associates, distributed by Teaching Resources Films, 1970
5fs. color 35mm. approx. 55fr. ea. and 3 phonodisc: 12in. 33 1/3rpm. (Environment of man, set 1)

Teacher's guide.
4-6 CONTENTS: Is there life on earth?--The ocean of air--Water-Clear and otherwise--Of food and land--Energy applied.
SUMMARY: Deal with the life forms and the precarious balance of nature on earth as seen from the viewpoint of a visitor from another planet.

1 Man--Influence of environment 2 Man--Influence on nature 3 Pollution

301.3

K 66 Ecology and man, set 1 (Kit)
McGraw-Hill, 1964
6fs. color 35mm. approx. 50fr. ea.

Teacher's guide.
Captioned filmstrip.
CONTENTS: Introduction to ecology--Changes in ecosystems--Energy relationships--Habitats and niches--Populations and biomass--Adaptations to environment.
7-9 SUMMARY: Discusses important major concepts of adaptation, habitations, habits and behavior, etc.

1 Adaptation (Biology) 2 Animals--Habitations
3 Food supply

574.5

K 67 Ecology and man, set 2 (Kit)
McGraw-Hill, 1965
6fs. color 35mm. approx. 49fr. ea.

Teacher's guide.
Captioned filmstrip.
CONTENTS: The Forest biome, part 1 and 2--Grassland biome--Desert biome--Fresh water ecology--Seacoast ecology.
7-9 SUMMARY: Discussions on the interdependence of man and his environmental conditions.

1 Adaptation (Biology) 2 Ecology

574.5

K 68 Ecology and man, set 3 (Kit)
McGraw-Hill, 1965
6fs. color 35mm. approx. 50fr. ea.

Teacher's guide.
Captioned filmstrip.
CONTENTS: Man-managed ecosystems--Management of water--Management of soil--Ecology of farming--Competitive land uses--Human ecology.
7-9 SUMMARY: Discusses various topics in the field of land and resource conservation.

1 Conservation 2 Natural resources 3 Man--Influence of environment 4 Human ecology

333.7

K 118 Ecology and you (Kit)
Teaching Resources Films, and educational service of The New York Times, 1972
6fs. color 35mm. approx. 39fr. ea. and 3 cassettes: 1 7/8ips. single track 2s.

K-3 Teacher's guide.
Captioned filmstrips.
CONTENTS: Earth--Air--Water--Animals--Our world today--Your role in ecology.

(Continued on next card)

K 118 Ecology and you (Card 2)

SUMMARY: Introduces students to the subject of ecology. Shows man's relationship to organic and inorganic life, his responsibility to his world and to himself and the contribution-small and large-that each individual can make in restoring the world ecological balance.

1 Ecology 2 Man--Influence of environment
3 Conservation of natural resources

574

MP 235 Ecology: checks and balances (Motion picture) Peterson Co. Released by Pyramid Films, 1970
14min. sd. color 16mm.

7-9 SUMMARY: A drama symbolizing the guiding ecological principle of interdependence, starring the aphid and the ladybug.

1 Ecology 2 Biology

591.5

79-737602

K 232 Ecology combined (Kit)
Hach Chemical Company, n.d.
kit with various chemical samples

Directions fixed inside lid of box.
10-12 CONTENTS: 4oz. pH-wide range solution #4 --Alkalinity sulfuric acid, 4oz.--Hardness 1, 2 and 3, 4oz. ea.--4oz. sodium hydroxide--4oz. PAO for dissolved oxygen--½oz. of phenolphthalein solution 0.1%--Dissolved oxygen powder pillows, 1, 2 and 3 (100 ea.)--Mixed brom cresol green-methyl red indicator powder pillows

(Continued on next card)

FS 3 Ecology--Interdependence II (Filmstrip)
Popular Science Publishing Co., 1968
4fs. color 35mm. 41fr. ea.

Teacher's guides.
10-12 CONTENTS: Biological societies--Life in the oceans--Life in the soil--Animal communication.

1 Animal communication 2 Animals--Habits and behavior 3 Marine biology
591

K 232 Ecology combined (Card 2)

(100)--Plastic measuring tube, 5.83mm.--Glass stoppered D.O. bottle with 30ml. mark --Clippers--Mixing bottle--Color viewing tube --Stopper--Color comparator--Wide range pH color disc.
SUMMARY: Field study kit for testing high and low ranges of free acidity, alkalinity, carbon dioxide, dissolved oxygen hardness and pH.

1 Chemistry 2 Chemistry, Analytic 3 Chemical apparatus
543

K 107 Ecology of a desert (Kit)
Imperial Film, 1973
2fs. color 35mm. approx. 40fr. ea. and 2 cassettes: 1 7/8ips. dual track 11min.

CONTENTS: Death Valley, part 1 and 2
4-6 SUMMARY: Study of desert ecology captures the beauty, variety, and striking vigor of life in Death Valley, thoroughly acquainting students with important facts and concepts about desert life.

1 Desert ecology 2 Desert animals 3 Desert plants 4 Death Valley, California--Description and travel
551.4

FS 2 Ecology--Interdependence I (Filmstrip)
Popular Science Publishing Co., 1965
5fs. color 35mm. approx. 41fr. ea.

Teacher's guides.
10-12 CONTENTS: Nature's cycles--Chlorophyll-capturing the sun's energy--Mimicry and camouflage in nature--Biological communities--Tidal pool zoo.

1 Color of animals 2 Marine biology 3 Protoplasm 4 Biology
574

K 166 Ecology of a park (Kit)
H.M. Stone Productions, 1972
48fr. color 35mm. cassette: 1 7/8ips. dual track (Elementary science)

Guide and resource manual.
K-3 SUMMARY: Shows how plants and animals adapt to the environment in a park.

1 Animals--Habits and behavior 2 Adaptation (Biology) 3 Biology
574

K 165 Ecology of a street (Kit)
H.M. Stone Productions, 1972
45fr. color 35mm. cassette; 1 7/8ips. dual track (Elementary science)

K-3

Guide and resource manual.
SUMMARY: Show where many people live together, the environment is changed. Garbage and air pollution become problems. However, many plants and animals make their habitats in a city street and adapt to this kind of environment.

1 Air--Pollution 2 Adaptation (Biology)
3 Pollution

574

FS 303 Ecology of the urban environment (Filmstrip)
Urban Media Materials, 1972
6fs. color 35mm. 36fr. ea.

4-6

Teacher's guide.
CONTENTS: Housing patterns--Population--Urban wild life--Sanitation--Water supply--Air pollution.
SUMMARY: Provides students with an introduction to the problems of the urban ecology.

1 Air--Pollution 2 Man--Influence on nature
3 Water--Pollution 4 Conservation of natural resources
5 Human ecology

333.7

FS 163 Ecology of the forest (Filmstrip)
H.M. Stone Productions, 1971
44fr. color 35mm. (Elementary science)

K-3

Guide and resource manual.
SUMMARY: Defines ecology and explains how nature maintains an ecological balance.

1 Forest ecology 2 Ecology

574.3

76-737943

K 226 Ecology package (Kit)
Time/Life Education, 1970
8fs. color 35mm. approx. 70fr. ea.; 6 reprints, 25 copies each; book

7-9

Guides to reprints.
CONTENTS: Filmstrips: Great Lakes history and ecology--Great Lakes causes of pollution--Great Lakes results of pollution--Hudson river history and ecology--Hudson river cause and results of pollution--An avalanche of trash--A disposal crisis--Reclaiming our waste. Reprints: Vanishing

(Continued on next card)

FS 164 Ecology of the sea (Filmstrip)
H.M. Stone Productions, 1971
41fr. color 35mm. (Elementary science)

K-3

Guide and resource manual.
SUMMARY: Reviews the evolution of animal and plant life in the sea and describes important physical factors that affect the ecology of the sea.

1 Marine ecology 2 Ocean

574.5

70-737944

K 226 Ecology package (Card 2)

wildlife: the mammals--Vanishing wildlife: the birds--Environment: What can be done?--Cars and cities on a collision course--Threatened America: fight over wilderness--Threatened America: the balance of nature--Book: Time-Life: Ecology.
SUMMARY: Describes both the beauty and the despoliation of our land and our natural resources.

1 Air--Pollution 2 Water--Pollution--Great Lakes 3 Man--Influence of environment
4 Pollution 5 Conservation of natural resources

301.3

K 347 Ecology--The science of good earthkeeping (Kit) Doubleday Multimedia, 1972
2fs. color 35mm. approx. fr. ea. and cassettes: 1 7/8ips

7-9

CONTENTS: Earth: a planet worth saving--Our polluted planet.
SUMMARY: Stresses the need for an awareness of the interrelationship of living things for a complete understanding of the ecological crisis faced today.

1 Pollution 2 Man--Influence of environment 3 Conservation of natural resources

574

K 8 Ecology: water pollution investigations (Kit) Scott Resources, Inc., 1973
3fs. color 35mm. approx. 72fr. ea. and 3 cassettes: 1 7/8ips. wall chart 17 1/2in. x 16in.

7-9

Teacher's resource manual, 77p. in notebook.
CONTENTS: Earth, water, and man--Clean water: a vanishing resource--A River's journey.
SUMMARY: Explanation into the nature of and uses of water and the causes and effects of major types of pollutants. Program is divided into 8 major investigations.

1 Ecology 2 Water--Pollution--Experiments 3 Pollution

574

K 99 Ecology: understanding the crisis (Kit) Encyclopaedia Britannica Educational Corporation, 1972
6fs. color 35mm. approx. 82fr. ea. and 6 phonodisc: 12in. 33 1/3rpm.

7-9

Teacher's guide.
CONTENTS: Environments and ecosystems--Man in ecosystems--Human communities simple and complex--Creating imbalances--Destroying the future--Creating the future.

(Continued on next card)

K 116 Economics of pollution (Kit) Teaching Resources Films, and educational service of The New York Times, 1972
52fr. color 35mm. and cassette: 1 7/8 ips. single track 2s.

7-9

2 teacher's guides.
SUMMARY: Emphasizes the concept of the cost factor involved in pollution and of various approaches to the elimination of pollution are discussed.

1 Pollution 2 Environmental policy 3 Economic conditions

330.9

72-734912

K 99 Ecology: understanding the crisis (Card 2)

SUMMARY: Ecology holds the key to understanding today's environmental crisis--an understanding vital to the survival of our planet. How the crisis has come about is shown in this series.

1 Ecology 2 Man--Influence of environment 3 Conservation of natural resources

573

K 115 The Economy versus ecology (Kit) The New York Times, 1973
65fr. b&w 35mm. and cassette: 1 7/8ips. dual track audible and inaudible; 1 tape 3 3/4ips. dual track (Current affairs, March 1973)

7-9

With worksheet master and discussion manual, including script and lesson plan.
SUMMARY: In a weakened economy, battle lines are being drawn between the need to provide jobs and maintain industrial output and the need to protect air, water and the whole environment.

1 Ecology 2 Pollution

301.3

TR 288 Elementary science projectuals, set 1 (Transpariences) Raytheon Education Company, 1968
42 color transpariences, 5 clear transpariences, plastic weighted register frame, plastic carrying case.

K-3

Teacher's guide printed on the inside of the folder for each topic.
CONTENTS: Sun and shadow changes--Three dimensional shapes--Two dimensional shapes

(Continued on next card)

TR 288 Elementary science projectuals, set 1 (Card 2)

--Size-distance relationship--Observing color, shape, size--Observing hot-cold--Observing hearing, smell, taste--Young are like their parents--Growth and reproduction --Growth of children--Fossil evidence (Dinosaur)--Grouping (Rocks)--Sizes by comparison.

1 Science--Study and teaching 2 Perception
3 Biology

507

TR 289 Elementary science projectuals, set 2 (Transpariences) Raytheon Education Company, 1968
48 colored transpariences, 5 clear transpariences, plastic weighted register frame, plastic carrying case

K-3

Teacher's guide printed on the inside of the folder for each topic.
CONTENTS: Seasonal changes--Extending the senses--Measuring instruments--Sizes by com-

(Continued on next card)

TR 289 Elementary science projectuals, set 2 (Card 2)

parison--Linear measure--Perimeter measure --Surface measure--Observing and grouping size, shape, color--Observing and grouping float or sink--The earth from space--Changing electric energy--Growth and development (Frog)--The digestive system--The circulatory system.

1 Science--Study and teaching 2 Mensuration
3 Perception 4 Biology

507

TR 290 Elementary science projectuals, set 3 (Transpariences) Raytheon Education Company, 1968
54 color transpariences, 6 clear transpariences, plastic weighted register frame, plastic carrying case

K-3

Teacher's guide printed on the inside of the folder for each topic.
CONTENTS: Hearing and sound (Ear)--Lungs, larynx, heart--Desert and water animals--

(Continued on next card)

TR 290 Elementary science projectuals, set 3 (Card 2)

Mammals and reptiles of the desert--Desert plants and water plants--Protective coloration--Decay of a log (Soil building)--Plant growth--Insulators and conductors--Fuel and oxygen--Machines (Lever, gear, wedge)--The moon--The changing surface of the earth--The water cycle.

1 Science--Study and teaching 2 Botany
3 Biology

507

TR 291 Elementary science projectuals, set 4 (Transpariences) Raytheon Education Company, 1968
54 color transpariences, 6 clear transpariences, plastic weighted register frame, plastic carrying case
4-6

Teacher's guide printed on the inside of the folder for each topic.
CONTENTS: Survival devices (Insects)--Monarch butterfly cycle--Protective color

(Continued on next card)

TR 291 Elementary science projectuals, set 4 (Card 2)

and shape--Observing and inferring 1--Observing and inferring 2--Observing and predicting weather--Seeds--Particles of matter--The states of matter--Climatic adaptation (Animals)--Climatic adaptation (Plants)--Cell structure--Reproduction by fission (Amoeba)--Force and motion--The universe.

1 Science--Study and teaching 2 Biology
3 Botany

507

TR 292 Elementary science projectuals, set 5 (Transpariences) Raytheon Education Company, 1968
66 color transpariences, 6 clear transpariences, plastic weighted register frame, plastic carrying case.
4-6

Teacher's guide printed on the inside of the folder for each topic.
CONTENTS: Weather map--Apollo spacecraft--Navigation (Radio compass)--Conservation

(Continued on next card)

TR 292 Elementary science projectuals, set 5 (Card 2)

of matter--Conservation of energy--Conservation of matter-energy--Nuclear fission--Nuclear fusion--Electric circuits--Conductors and non-conductors--Body systems--Animal classification--Plant classification--Volcanic formation.

1 Science--Study and teaching 2 Botany
3 Chemistry

507

TR 293 Elementary science projectuals, set 6 (Transpariences) Raytheon Education Company, 1968
66 color transpariences, 6 clear transpariences, plastic weighted register frame, plastic carrying case.
4-6

Teacher's guide printed on the inside of the folder for each topic.
CONTENTS: Atomic structure--Molecular structure--Chemical interaction--Spectrum

(Continued on next card)

TR 293 Elementary science projectuals, set 6 (Card 2)

analysis--Photosynthesis--A geologic calendar--Energy waves--Behavior of light 1--Behavior of light 2--The colors of light--The brain--Eclipse of the sun--Features of the sun--Relative motion--Formation of the solar system--The universe.

1 Science--Study and teaching 2 Biology
3 Solar system

507

K 110 The Embattled Metropolis (Kit)
The New York Times, 1970
72fr. b&w sd. 15min. 35mm. phonodisc: 12in. 33 1/3rpm.

Discussion manual(16 pages with bibliography)

4-6 SUMMARY: The interdependence of city and suburb and how their interests often conflict on problems such as taxation, housing, pollution, crime, transportation; city problems now affecting suburbs; metropolitan area government.

1 Cities and towns--U.S. 2 Metropolitan areas --U.S. 3 Metropolitan government--U.S. 4 U.S. --Economic conditions 5 U.S.--Social conditions

917.3

72-736657

FL 358 Energy for the city (Motion picture)
Baling Corp., 1969
4min. si. color super 8mm. (The changing city)

10-12 Loop film mounted in cartridge.
Film notes on cartridge case.

SUMMARY: Shows the arrival of bulk fuel by sea, rail, road, or pipeline to be used directly or turned into electricity or gas, which is then distributed to many different industrial and domestic users.

1 Fuel 2 Electricity

372.8 72-700424

MP 209 End of one (Motion picture)
Paul Kocela Films. Released by Learning Corp. of America, 1970
7min. sd. color 16mm.

Teacher's guide.

10-12 SUMMARY: A wordless parable of modern society in which masses of seagulls fighting for growing mounds of garbage are intercut with the final feeble movements of a single dying bird while tractors and jet planes roar in the distance.

1 Pollution 2 Man--Influence of environment

574.5

MP 262 Energy to burn (Motion picture)
King Screen Productions for Holt, Rinehart and Winston, 1973
21min. color sd. 16mm.

10-12 SUMMARY: Shows the exploration of fossil fuels, how the earth laid down its store of fossil fuel and how our society consumes one hundred times the energy of primitive man, with most people unwilling to relinquish the good life that technology has brought.

1 Fuel 2 Power resources 3 Conservation of natural resources

662.6

K 126 Energy crisis (Kit)
Teaching Resources Multimedia, 1972
2fs. color 35mm. 35fr. sd. and phonodisc: 12in. 33 1/3rpm.; 6 study prints 22in. x 15in. 35 student handbooks.

Teacher's guide.

4-6 CONTENTS: Filmstrips: A historical review--report from planet 32.

SUMMARY: The history of man's struggle to discover the sources of power around him and direct them to do his work. A fantasy account of man's devastation of the planet earth through overuse of natural resources.

1 Natural resources 2 Conservation of natural resources 3 Power resources

333.7

K 121 Environment: changing man's values (Kit)
Guidance Associates, 1970
2 filmstrips (pt. 1, 96fr.; pt. 2, 90fr.) color 35mm. and 2 cassettes (pt. 1, 14min.; pt. 2, 13min.) 1 7/8ips. dual track

10-12 Teacher's guide.
Man's adjustment to the life and complex systems around him.

1 Man--Influence of environment

301.3

MP 233 Environment: everything around us (Motion picture) Encyclopaedia Britannica Education-al Corp., 1972
13min. sd. color 16mm.

Teacher's guide.

K-3

SUMMARY: Two young boys making a movie discover ways that man has adapted to various environments and ways that he has changed them.

1 Pollution 2 Man--Influence of environment 3 Ecology

614

K 85 Environmental awareness (Kit)
Centron Educational Films, distributed by Learning Arts, 1971
5fs. color 35mm. approx. 70fr. ea. and 5 cassettes: 1 7/8ips. dual track

Teacher's guide.

K-3

CONTENTS: Colors in nature--Textures in nature--Patterns in nature--Awareness in forest and field--Awareness in the city.
SUMMARY: Designed to give beginning students in environmental education a different dimension and viewpoint of their environment.

1 Nature study 2 Nature photography

574

K 352 Environmental crises, set 1 (Kit)
American Association of Health, P.E. and Recreation, 1972
5fs. color 35mm. approx. fr. ea. and 5 cassettes: 1 7/8ips

7-9

CONTENTS: Interrelationships present in pollution--Animal wastes and ecology--Focus on population.

1 Pollution 2 Ecology 3 Population

301.3

K 353 Environmental crises, set 2 (Kit)
American Association of Health, P.E. and Recreation, 1972
5fs. color 35mm. approx. fr. ea. and 5 cassettes: 1 7/8ips.

7-9

CONTENTS: Industrial wastes--Environment and health--Energy crisis: fossil fuels--Ecology versus economy--Consumer and community action.

1 Pollution 2 Air--Pollution 3 Salvage (Waste, etc.) 4 Economic conditions

301.3

K 354 Environmental crises, set 3 (Kit)
American Association of Health, P.E. and Recreation, 1973
5fs. color 35mm. approx. fr. ea. and 5 cassettes: 1 7/8ips.

7-9

CONTENTS: Industrial water pollution--Health effects of water pollution--Energy crisis: nuclear power--Urban environment--Endangered species.

1 Factory and trade wastes 2 Water--Pollution 3 Noise--Pollution 4 Pollution

301.3

K 5 Environmental education do-it cards for earth and physical science (Kit)
Jefferson County, Colorado School District R-1, 1972
196 cards 5in. x 18in. in plastic box

7-9

CONTENTS: Divided into 9 different areas: Introduction--Field work an awareness--Land use--Soil investigations--Energy--Water--Air pollution--Garbage--Quicky cards.
SUMMARY: Designed to help the student take an in-depth look at different component parts of his environment.

1 Man--Influence of environment 2 Human ecology 3 Pollution

301

K 83 Environmental mathematics (Kit)
BFA Educational Media, 1971
6fs. color 35mm. approx. 48fr. ea. and 3 cassettes single track 2s.

7-9

CONTENTS: Terms and sets: waste disposal--Addition and subtraction: Taxes--Graphing: governmental processes--Multiplication and Division: environmental planning--Mean, median, and mode: Determining public opinion--Problem solving techniques: population control.

(Continued on next card)

K 83 Environmental mathematics (Card 2)

SUMMARY: Provides instruction and practice in some mathematical operations while demonstrating how solutions to some social and ecological problems can be attacked through the use of mathematics.

1 Mathematics 2 Environmental policy
3 Ecology

510

K 346 Environmental science: ecology, set A (Kit)
Holt, Rinehart and Winston, Inc., 1972
8fs. color 35mm. approx. 58fr. ea. and 8 cassettes: 1 7/8ips dual track audible/inaudible (Elementary series)

4-6

Study guides.
CONTENTS: Let's look at environment--Living things in their environment--How plants and animals live together--Man and his environment--Managing our natural resources--Animals

(Continued on next card)

K 346 Environmental science: ecology, set A (Card 2)

and plants in danger--Man's population--Our polluted environment
SUMMARY: Designed to provide the student with a deeper insight into the nature of our current ecological crises and enables him to think of ways to solve some of the problems.

1 Conservation of natural resources
2 Pollution 3 Man--Influence of environment

333.7

K 234 Environmental science: pollution, set B (Kit)
Holt, Rinehart and Winston, Inc., 1972
8fs. color 35mm. approx. 58fr. ea. and 8 cassettes: 1 7/8ips. dual track audible/inaudible (Elementary Series)

4-6

Study guides.
CONTENTS: What can industry do about pollution?--What can government do...?--What can you do...?--Pollution affects your health--Our polluted land, water, and air--Noise pollution.

(Continued on next card)

K 234 Environmental science: pollution, set B (Card 2)

SUMMARY: Designed to provide the student with a deeper insight into the nature of our current ecological crises and enables him to think of ways to solve some of the problems.

1 Air--Pollution 2 Water--Pollution
3 Pollution 4 Man--Influence of environment

574

K 100 Environmental studies (Kit)
American Geological Institute, 1972
1 kit various pieces

Manual--Essence 1 and 2
7-9 CONTENTS: 26 assignment cards 8in. x 5in. 80 extension cards 3½in. x 2½in.--Bull's eye target--Assignment cards for essence 1 and 2 (26ea. set)
SUMMARY: A kit designed for the teacher to nurture openness between himself and students in his classroom.

1 Emotions 2 Human relations 3 Ecology

157

K 20 Environmental studies series (Kit)
Centron Educational Films, 1972
6fs. color 35mm. approx. 85fr. ea. and 6 cassettes: 1 7/8ips. dual track

Teacher's guide.
4-6 CONTENTS: The rivers must not die--solid wastes--Noise: The latest pollution --The land and the soil--Air pollution--Pests, pesticides and people.

1 Water--Pollution 2 Air--Pollution 3 Noise--Pollution 4 Pesticides and the environment 5 Pollution

614

K 136 Experiments in elementary science (Kit)
Educational Insights, Inc., 1971
134 cards 4in. x 6in. in box

CONTENTS: Divided into 12 sections; Magnetism--Electricity--Air--Aerophysics --Simple machines--Weather--Heat--Water--
4-6 Chemistry--Sound--Light--Extra material.
SUMMARY: Simple science experiments in each of these areas which students can conduct.

1 Science--Study and teaching 2 Science--Experiments

507

K 48 Excretory systems (Kit)
Denoyer-Geppert, 1971
65 colored slides 2in. x 2in. in carousel

Teacher's manual.
Summary:
10-12
- Highlights animals' need to eliminate the waste products of cellular metabolism
- Discusses the various kinds of waste materials and the specific manner of their elimination
- Contrasts diffusion and active transport, and examines how these processes function in animal excretion
- Contrasts the excretion of water organisms with that of land organisms, and examines the excretory systems of progressively larger and more complex animals.

1 Anatomy, Comparative 2 Zoology 3 Animals

591

K 348 Exploring the world of maps (Kit)
National Geographic Society, 1973
5fs. color 35mm. approx. fr. ea. and cassettes: 1 7/8ips

CONTENTS: The message of maps--Using maps--Round earth on flat paper--Surveying the earth
4-6 Making of maps.
SUMMARY: The meanings of map symbols. Kinds and uses of maps. Boundary lines, distances, scales, directions, and map projections introduced and explained.

1 Maps 2 Map drawing

912

FS 193 Exploring the world of nature, group 1 (Filmstrip) Singer, Society for Visual Education, 1969
6fs. color 35m.. approx. 49fr. ea.

Captioned filmstrips.
Contents: Let's explore a field, a garden, a lawn, a pond, a stream, a woodland.
7-9 SUMMARY: Students learn about plants and animals found in a variety of topographical and climatic conditions, demonstrating the relation of plants and animals to their environment and man.

1 Geographical distribution of animals and plants 2 Animals--Habits and behavior 3 Adaptation (Biology)

574

FS 189 Familiar animals and their families (Filmstrip) Singer, Society for Visual Education, 1962
6fs. color 35mm. approx. 33fr. ea.

Captioned filmstrips.
CONTENTS: Mrs. Cottontail and her springtime family--Mr. and Mrs. Robin and their springtime family--Mr. and Mrs. Beaver and their family--Mrs. Bear and her family--Mr. and Mrs. Mallard and their family.
K-3 SUMMARY: Students learn about food, homes, enemies, seasonal activities, care of young, individual characteristics of familiar animals.

1 Animals--Habits and behavior

591

FS 194 Exploring the world of nature, group 2 (Filmstrip) Singer, Society for Visual Education, 1970
6fs. color 35mm. approx. 50fr. ea.

Captioned filmstrips.
CONTENTS: Let's explore the city, pt. 1 and 2, the dunes, the desert, the shore, a salt marsh.
4-6 SUMMARY: Students learn about plants and animals found in a variety of topographical and climatic conditions.

1 Geographical distributions of plants and animals 2 Animals--Habits and behavior 3 Plants

591

K 227 Field trips for fun and facts (Kit)
Jam Handy-Scott Education, 1970
5fs. color 35mm. approx. 59fr. ea. and 5 cassettes: 1 7/8ips. single track

Teacher's guide.
4-6 CONTENTS: What is a museum?--Experiencing history in a museum--Investigating science at a museum--Enjoying art at a museum--Meeting the animals at a zoo.
SUMMARY: Designed to encourage students

(Continued on next card)

K 137 Exploring with science (Kit)
Encyclopaedia Britannica, 1959
12 shortstrips color 35mm. 14fr. ea. strip; handviewer.

Captioned filmstrips with guide ea. strip.
CONTENTS: Old Mother sun; Our planet earth; You and the Universe; Seasons come and go; What day is it?; When night comes; What is weather?; Power moves things; Meet the Plant family; Meet the Animal family; Meet the Human family; You are alive.
K-3 SUMMARY: Designed to cover many of the most important aspects of science. One frame, at the end, is made up of short review questions.

1 Science--Study and teaching

507

K 227 Field trips for fun and facts (Card 2)

to visit different kinds of museums. Attention is directed to career opportunities in these fields.

1 Museums 2 Zoos

069

FC 101 Fishes (Flash cards)
Renwal Products Inc., 1968
48 colored flashcards 6in. x 3in. (Teach-me about)

4-6
Teacher's guide.
Descriptive notes on back of each picture.
SUMMARY: Designed to provide the student with a ready means of comparison and association of the characteristics of 48 North American fishes.

1 Fishes

567

FL 332 Fishing at the stone weir, part 1 (Motion picture) National Science Foundation and the Ford Foundation, 1967
8min. sd. col. super 8mm. (Man: A course of study)

4-6
Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs 4 Fishing

919.8

FL 333 Fishing at the stone weir, part 2 (Motion picture) National Science Foundation and the Ford Foundation, 1967
20min. sd. col. super 8mm. (Man: A course of study)

4-6
Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs 4 Fishing

919.8

K 97 Food webs and pyramids (Kit)
Denoyer-Geppert Audio-Visuals, 1970
60 colored slides 2in. x 2in. in carousel (Investigations in ecology: a biological approach)

With teacher's guide.

10-12
SUMMARY: Compares the efficiency of the simple food chain with the more complex food web, and illustrates the pyramidal number relationship that exists among organisms in a food chain. Shows producers forming the base of the pyramid with consumers forming the peak, and explains pyramids of mass and of energy. Shows relationship between diet and the pyramid of energy.

1 Food chains 2 Ecology

574.5

FS 158 Four seasons (Filmstrip)
Encyclopaedia Britannica Films Inc., 1963
4fs. color 35mm. approx. 33fr. ea.

Captioned filmstrips.
CONTENTS: Spring--Summer--Autumn--Winter
K-3
SUMMARY: Photography shows how seasonal hot and cold, rain and snow affect activities of humans and animals.

1 Spring 2 Summer 3 Autumn 4 Winter 5 Seasons

525

K 139 Future; can we shape it? (Kit)
Scholastic Magazine Inc., 1973
phonodisc: 12in. 33 1/3rpm. 2s.; 36 anthologies; 36 logbooks; 6 posters 34in. x 22in. (Contact)

Teacher's guide.
10-12
SUMMARY: Stimulates students to project themselves into the future, examine their own values, confront the fact of change and how we all must learn to live with it. Using stories, plays, and articles that deal with many of the changes that science and technology are likley to produce.

1 Future life 2 Man--Influence of environment

301

MP 249 Garbage (Motion picture)
King Screen Productions, for Holt, Rinehart and Winston, 1970
11min. sd. color 16mm. (Environmental series)

7-9

Study guide.
SUMMARY: Presents without words, sequences which suggest the tragi-comic quality of man's garbage.

1 Refuse and refuse disposal 2 Ecology 3 Man--Influence of environment

301.3

73-712556

K 179 Getting along (Kit)
Scholastic Magazines, Inc., 1972
5f. color 35mm. approx. 64fr. ea. and 5 cassettes; 1 7/8ips. single track 2s. (Kindle, unit 3)

K-3

Teacher's guide.
CONTENTS: It's mine!--Sticks'n'stones--Will you be my friend?--Smiles don't just happen--I don't care anyhow.
SUMMARY: Designed as a tool for understanding for encouraging sensitivity toward others and (through this) developing greater self-understanding.

1 Human relations 2 Behavior

301.15

FL 282 Garbage dumps (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm. (Urban ecology)

10-12

Loop film mounted in cartridge.
Film notes on cartridge case.
SUMMARY: Illustrates the ecology of garbage dumps in the city.

1 Ecology 2 Refuse and refuse disposal

301.3

FL 286 Glassmaking at Jamestown (Motion picture)
Ealing Corp., 1968
4min. si. color super 8mm. (Pioneer crafts)

7-9

Loop film mounted in cartridge.
Film notes on cartridge.
SUMMARY: Shows the art of glassblowing as practiced by the American pioneers.

1 Glass blowing and working 2 Frontier and pioneer life

372.6

Fi A 68-3127

MP 225 Garbage explosion (Motion picture)
Encyclopaedia Britannica Corp., 1970
16min. color sd. 16mm.

10-12

Teacher's guide.
SUMMARY: Documents amounts and types of solid wastes, shows disposal methods both legal and illegal, and describes the sophisticated methods for the disposal of plastics and synthetics.

1 Refuse and refuse disposal 2 Pollution

628

73-708563

MP 210 Great sea farm (Motion picture)
Motorola Systems, 1971
25min. sd. color 16mm.

7-9

SUMMARY: Shows mariculture techniques that are being developed for the cultivation of plant life under the sea.

1 Marine ecology 2 Marine biology 3 Marine resources

574.92

FL 265 Harvesting-the first machines (Motion picture)
Ealing Corp., 1968
4min. si. color super 8mm. (Pioneer crafts)

10-12 Loop film mounted in cartridge.
Film notes on cartridge case.
SUMMARY: Shows the tools used by the early Americans in harvesting.

1 Harvesting machinery 2 Frontier and pioneer life
372.6
Fi A 68-3130

FL 266 Harvesting by hand (Motion picture)
Ealing Corp., 1968
4min. si. color super 8mm. (Pioneer crafts)

10-12 Loop film mounted in cartridge.
Film notes in cartridge case.
SUMMARY: Explains how the early Americans harvested by hand.

1 Harvesting 2 Frontier and pioneer life
372.6
Fi A 68-3128

FL 322 Herring gull behavior (Motion picture)
National Science Foundation and the Ford Foundation, 1967
10min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.

1 Birds--Habits and behavior 2 Gulls
3 Water birds
598

K 225 How do I learn? (Kit)
Inside Out Productions for Scholastic Magazines Inc., 1970
5fs. color 35mm. approx. 58fr. ea. and cassette: 1 7/8ips. single track 2s. (Kindle, unit 2)

K-3 Teacher's guide.
CONTENTS: Who's afraid?--Do you forget?--Figuring things out--What next?--Making mistakes.
SUMMARY: Introduces the child to specific ways of coping with the day to day tasks that are in his real world. Concept of learning.

1 Human relations 2 Social adjustment
3 Learning, Psychology of
301.15

K 31 How do you read your world (Kit)
Conservation Center for Creative Learning, 1972
294 cards 5in. x 8in. divided into 4 areas: Earth, air, water, and life.

4-6 Teacher's guide.
SUMMARY: Prime goals of this materials development effort is to help students to become aware of themselves as individuals and to understand interrelationships within their environment.

1 Human ecology 2 Man--Influence of environment
3 Human relations
301.15

C 41 Human development before birth (Charts)
Instructional Aids, Inc., 1970.
6 prints col. 18 1/2in. x 24 1/2in. (Reproduction and Human Development, set IV--chart 19-24)

4-6 Teacher's guide on verso of each picture.
CONTENTS:--19 Fertilization and implantation of human ovum.--20 Human embryos: 2, 3 and 4 weeks.--21 Human embryos: 6 and 8 weeks; human fetuses: 3 months.--22 Human
(Continued on next card)
371.7

C 41 Human development before birth (Charts) (Card 2)

fetus at 4 months--with membranes.--23 Full-term fetus; twins.--24 Growth of baby within the mother's body.

1 Sex education 2 Reproduction

371.7

C 40 The human reproductive system (Charts)
Instructional Aids, Inc., 1970.
6 prints col. 18 1/2in. x 24 1/2in.
(Reproduction and Human Development, set III--chart 13-18)

4-6

Teacher's guide on verso of each picture.
CONTENTS:--13 Human male reproductive system--front view.--14 Human male reproductive system--side view.--15 Human female reproductive system--front view.--16 Human

(Continued on next card)

371.7

C 40 The human reproductive system (Charts) (Card 2)

female reproductive system--side view.--17 Spermatozoon and Spermatogenesis; ovum and oegenesis.--18 Menstrual cycle.

1 Sex education 2 Reproduction

371.7

K 153 Hydroponics kit-grow plants without soil (Kit)
Learning Resource Center, 1973
1 kit various parts

Teacher's information cards.
CONTENTS: Nutrient stock solution--Trace element stock solution--Rubber stoppers--Rubber tubing--Plastic tubing--Styrofoam pots --Vermiculite--Coarse sand--Bean seeds.
SUMMARY: Shows plants grown hydroponically will grow larger, grow faster, bear larger fruit or flowers, have larger leaves, etc.

4-6

1 Growth (Plants) 2 Plants--Soilless culture
3 Plants

631.5

SP 295 Igneous rocks (Specimens)
Educational Manpower Inc., n.d.
51 samples of rocks

In chart form 15in. x 23in. mounted in frame, with descriptions.

7-9

1 Rocks 2 Mineralogy 3 Geology

543

K 109 Imperialism (Kit)
Zenger Productions, Inc., 1972
7 fr. color 35mm. cassette: 1 7/8ips. dual track audible and inaudible 19min.

Teacher's guide.
SUMMARY: Purpose is to demonstrate that the word imperialism has many different meanings. Shows how different writers have developed theories about the causes and effects of imperialism, and encourages students to evaluate these theories and perhaps develop their own.

10-12

1 Political science 2 Social sciences
3 Militarism

320

K 17 Impressions, vol. 1 (Kit)
Encore Visual Education, Inc., 1972
4fs. color 35mm. approx. 30fr. ea. and 4 cassettes: 1 7/8ips. dual track

Teacher's guide.
4-6 CONTENTS: Impressions in the park--... on the city street--...at the shore--... at the zoo.
SUMMARY: Developed as a teaching resource for elementary grades in language arts, music, art, and the social sciences. The emphasis is on "awareness" rather than on "research".

1 Communication 2 Perception
152.1

K 18 Impressions, vol. 2 (Kit)
Encore Visual Education, Inc., 1972
4fs. color 35mm. approx. 30fr. ea. and 4 cassettes: 1 7/8ips. dual track

Teacher's guide.
4-6 CONTENTS: Impressions at the Fair--Fun zone--Auto show--Shopping center.
SUMMARY: Developed as a teaching resource for elementary grades in language arts, music, art, and the social sciences. The emphasis is on "awareness" rather than on "research".

1 Communication 2 Perception
152.1

FL 285 Indians of Orinoco Jungle: Building a dug-out canoe (Motion picture) Paling Corp., 1968
4min. si. color super 8mm. (How man lives)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Pictures the canoe-making skills of the Makiritare Tribe from whom the Yanomama obtain their canoes. Shows the hallowing out of a tree trunk and shows how the canoe is stretched when hot.

1 Indians of South America--Orinoco Valley
2 Indians of South America--Boats 3 Canoes and canoeing
980.6

K 10 The Indians vs. the giant utilities: Whose values prevail at Black Mesa? (Kit) Denoyer-Geppert, 1972
2fs. color 35mm. approx. 95fr. ea. and 2 phonodisc: 12in. 33 1/3rpm. 18min.

Teacher's guide.
4-6 SUMMARY: Focuses on the conflict between traditional Hopi and Navajo Indians, who seek to preserve the sacred lands of the Black Mesa, Arizona and New Mexico, and the power in industries, which are engaged in strip mining the area.

1 Water--Pollution 2 Environmental policy
3 Public utilities I Title: Black Mesa
614

FL 264 Input and output: producing a product (Motion picture) Paling Corp., 1969
4min. si. color super 8mm. (Elementary economics)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Presents the basic concepts that the production of economic goods involves inputs of labor, land, and capital, and that the market price of a given good determines the proportions of land, labor, and capital used in its production and the quanity produced.

1 Economics 2 Economic conditions
372.8

75-700666

K 54 An inquiry into the nature of man: his inhumanity and his humanity (Kit) Center for Humanities, Inc., 1971
160 col. slides 2in.x 2in. in two carousels; 2 cassettes 1 7/8ips. single track; 2 phonodiscs 12in. 33 1/3rpm.

Teacher's guide.
7-9 SUMMARY: Part 1-examines man's inhumanity to man through history, confronting students with the question of whether inhumanity is part of our very nature. Part 2-investigates the essence of man's humanity to man; his sometimes fierce struggle to express that which is best about himself.

1 Human relations 2 Social psychology 3 Behavior
301.15

FC 104 Insects (Flash cards)
Renwal Products Inc., 1968
48 colored flashcards 6in. x 3in. (Teach-me about)

4-6

Teacher's guide.
Descriptive notes on back of each picture.
SUMMARY: Designed to provide the student with a ready means of comparison and association of the characteristics of 48 insects.

1 Insects

595.7

PI 170 Introducing animals (Pictures)
McGraw-Hill, 1969
60 color study prints (12 ea. set)

K-3

Guide on the reverse of each print.
CONTENTS: Animal babies--Life stories: Butterfly and frog--Animal disguises--Animal defenses--Kinds of animals.
SUMMARY: Offers insights into the birth, growth, and means of survival of the various organisms.

1 Animals--Habits and behavior 2 Frogs 3 Butterflies

591

K 244 Insects (Kit)
Singer, Society for Visual Education, 1970
kit of various multi-media

7-9

Teacher's guides.
CONTENTS: 9 filmstrips: Praying mantis--Studying monarch butterflies--Studying moths and butterflies--Metamorphosis of moths and butterflies--Life of the silkworm--How insects live and grow--How to identify moths and butterflies--Life cycle of the monarch butterfly--Life of the honeybee--4 sets study

(Continued on next card)

MP 204 Introducing ecology: dependence and sharing (Motion Picture) Coronet Films, 1973
11min. sd. color 16mm.

4-6

Teacher's guide.
SUMMARY: Where ever we find animals we find plants. Using a tree, a pond, an ocean, a desert and a grassland as examples, we discover ways plants and animals are able to share their surroundings, and how they depend on one another.

1 Adaptation (Biology) 2 Ecology 3 Geographical distribution of animals and plants

574

K 244 Insects (Card 2)

prints (8ea. set): Common insects--Moths and butterflies--Insects of the garden and cropland--Insects of the home and neighborhood--3 slide sets (20 slides ea. set): Common butterflies and moths--Common insects and spiders--Insects and other arthropods.

1 Moths 2 Butterflies 3 Insects

595.7

FS 160 An introduction to ecology: six basic systems (Filmstrips) Eye Gate House, 1970
6fs. color 35mm. approx. 33fr. ea.

4-6

Teacher's guide.
Captioned filmstrips.
CONTENTS: Upland forest--Lowland forest--Marshes--Grasslands--Streams and ponds--sea shore.
SUMMARY: Introduces students to the basic inter-relationship between plants and animals.

1 Adaptation (Biology) 2 Ecology

574

K 221 An introduction to plants (Kit)
Singer, Society for Visual Education, 1960
2fs. color 35mm. approx. 53fr. ea. and cassette: 1 7/8ips. single track 2s.

K-3

Teacher's guide.
CONTENTS: The wonderful world of plants--Plants and how they grow.
SUMMARY: Depicts boy and scientist chatting about surrounding growth while strolling through a field.

1 Plants 2 Nature study

580

K 82 Investigating air, land, and water pollution (Card 2)

PURPOSE: To provide a foundation for an understanding and appreciation of life--To treat ecology in a highly personal way--To stress the social and scientific implications of how organisms, including humans, relate to each other and to their environment.

1 Man--Influence of environment 2 Water--Pollution 3 Human ecology

574

FS 4 Introduction to the metric system (Filmstrip)
Dawson Films Production, 1970
4fs. color 35mm. approx. 42fr. ea.

7-9

Teacher's guide.
CONTENTS: History of measurement--Measurement of length--Measurement of volume--Measurement of weight.
SUMMARY: Provides the opportunity to explore and learn the Metric System, how it envolved how to measure, how the various measurements relate to each other, and how they compare with the English system, how to convert mathematically from one system to the other.

1 Mathematics and measures 2 Metric system 3 Weights

510

K 75 Investigations in ecology (Kit)
Charles E. Merrill Publishing Co., 1972
70 skillcards 6 1/2in. x 9in.

7-9

Guide to learning.
Grouped in three categories: People and environment; Plants, animals, and environment; Earth: Life's environment.
SUMMARY: Explores man's impact on his environment; illustrates the importance of interrelationships and develops skills for investigating ecological problems.

1 Man--Influence of environment 2 Human ecology 3 Ecology

574

K 82 Investigating air, land, and water pollution (Kit) Pawnee Publishing Co., Inc., 1971
1 kit various media

7-9

96p. paperback with same title by Diane Storin.
CONTENTS: Cassette: 1 7/8ips. single track--Sounds in different environments--Ringelmann smoke chart--Carbon monoxide test--Ozone and oxides of nitrogen test--Cigarette smoke test--Chemically treated sand.

(Continued on next card)

K 81 Investigations in science: earth science (Kit)
BFA Educational Media, 1969
5fs. color 35mm. approx. 28fr. ea. and 3 cassettes: 1 7/8ips. single track 2s.

7-9

CONTENTS: Water erosion--Weathering--Soil--Minerals--Humus
SUMMARY: Five concepts about the nature of materials in our earth's crust and processes which affect them are developed by investigating experiences common to students and by experiments which can be repeated by them.

1 Soils 2 Soil conservation 3 Natural resources

631.4

K 236 John James Audubon: artist, scientist, pioneer (Kit) Miller-Brody Productions, Inc., 1970
4fs. color 35mm. approx. 48fr. ea. and 4 cassettes: 1 7/8ips. dual track

Teacher's manual
4-6 SUMMARY: A study of the artistic and scientific achievements of John James Audubon. Includes photographs of his original water colors for Birds of America and the Howell engravings.

1 Audubon, John James, 1785-1851 2 Birds

598

77-736906

K 349 Kingdom of the animals (Kit)
National Geographic, 1972
5fs. color 35mm. approx. fr. ea. and cassettes: 1 7/8ips.

10 guides (2 for ea. fs. and cassette)
7-9 CONTENTS: Africa: imperiled paradise--Insects: ad infinitium--Reptiles: relics of the past--Chimpanzees: Great apes of the African wild--Wildlife: vanishing American heritage

SUMMARY: Chimpanzees deep in the forests of Tanzania. African animals in a shrinking

(Continued on next card)

MP 244 Journey into summer (Motion picture)
MP 245 Xerox Education Company, 1970
51min. sd. color 16mm. 2 reels (We need each other)

Discussion guide.
10-12 SUMMARY: Natural history of America and a commentary on the interrelationships of all living things.

1 Man--Influence on nature 2 Ecology 3 Nature study 4 Summer

574

K 349 Kingdom of the animals (Card 2)

domain. America's wildlife heritage. Reptiles, survivors of the age of dinosaurs and the fascinating world of insects.

1 Animals--Habits and behavior 2 Insects 3 Reptiles 4 Chimpanzees

591

K 60 Junior museum series (Kit)
Educational Dimensions Corp., 1972
6fs. color 35mm. approx. 46fr. ea. and 6 cassettes: 1 7/8ips. dual track

Teacher's guide.
K-3 CONTENTS: Painting--Sculpture--Ceramics --Print making--Weaving--Mosaics.
SUMMARY: Helps students understand basic techniques and principles of art and design.

1 Arts and crafts 2 Painting 3 Sculpture

745

FL 334 Knud (Motion picture) Jørgen Roos, Copenhagen, Made by Nunafilm in association with Ingolf Boisen. Released in the U.S. by Contemporary Films/McGraw-Hill, 1968
31min. sd. b&w super 8mm. (Man: A course of study)

Loop film mounted in cartridge.
4-6 SUMMARY: A study of the adventures and personality of Arctic explorer and author Knud Rasmussen, using old film and photographs taken on various Rasmussen expeditions and including interviews of personal friends, surviving relatives, and Eskimos from the district of Thule who had travelled with him.

1 Rasmussen, Knud Johan Victor, 1879-1933
2 Arctic regions 3 Eskimos

919.8

K 14 Learning about conservation (Kit)
Coronet Films, 1968
6fs. color 35mm. approx. 49fr. ea. and 6 cassettes: 1 7/8ips. dual track 11 min.

Teacher's guide.
4-6 CONTENTS: Some problems we face--Our soil --Our water and air--Our forests--Our grasslands--Our minerals and energy resources.
SUMMARY: Helps students see and understand the importance of natural resources, their use and misuse and the things which can be done to perpetuate them.

1 Conservation of natural resources 2 Natural resources 3 Environmental policy

337.7

FS 302 Learning about plants (Filmstrip)
Encyclopaedia Britannica Films Inc., 1962
6fs. color 35mm. approx. 36fr. ea.

Captioned filmstrips.
K-3 CONTENTS: Plant needs--How plants live--Parts of a plant--How seeds sprout and grow into plants--How seeds are scattered--Plants we use.
SUMMARY: Students discover the principles of plant reproduction, plant life and seeds.

1 Plants 2 Plant propagation 3 Seeds 4 Germination

581

FL 281 Leaving the earth (Motion picture)
Ealing Corp., 1969
4min. si. color super 8mm. (Apollo 11: man's first journey to the moon)

Loop film mounted in cartridge.
10-12 Film notes on cartridge case.
SUMMARY: Uses footage from NASA film to show the launch of Apollo 11, injection into earth orbit, and translunar injections.

1 Apollo project 2 Space flight to the moon

629.47

FL 342 Legend of the raven (Motion picture)
Humble Oil and Refinnery Co., 1968
15min. sd. col. super 8mm. (Man: A course of study)

Loop film mounted in cartridge.
4-6 SUMMARY: Through the medium of carvings, tells a story passed down through generations and enriched by Eskimo songs and poetry and music of drum dance. A story told by Pitsulak.

1 Folklore, Eskimo 2 Arctic regions 3 Eskimos

919.8

K 148 Let's discover (Kit)
Guidance Associates, 1973
1 kit various multi-media

Teacher's guides and instruction sheets.
4-6 CONTENTS: 4fs. color 35mm. approx. 48fr. ea.--4 cassettes: 1 7/8ips. dual track--Music sheet--30 germination chambers--30 development domes--4 packets of seeds: Corn, marigold, squash, zinnia--Log sheets--Pamphlets for classroom activities.
SUMMARY: Introduces students to the wonder of seed germination plant and animal life and ecology.

1 Ecology 2 Plants 3 Germination

581

FL 321 Life cycle of the salmon (Motion picture)
Education Development Center, Inc., 1968
10min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.

1 Salmon 2 Fishes--Habits and behavior

597

C 27 Life history and habitat study charts (Charts)
Denoyer Geppert, 1965
19 color charts 40in. x 28in.; tripod stand

Teacher's manual.
4-6 CONTENTS: Frog--Beetle--Earthworm--Slugs and snails--Snakes, lizards--Bat--Ant--Dragonflies and water beetles--Mole, shrew--Crayfish, tritons and snails--Mackerel and herring--Pike, perch--Coelenterates, echinoderms and crustaceans--Pike family--Cabbage

(Continued on next card)

FL 341 Life on the tundra (Motion picture)
National Film Board of Canada, 1968
14min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.

1 Arctic regions 2 Tundras 3 Animals--Habits and behavior 919.8

C 27 Life history and habitat study charts (Card 2)

butterfly--Common eel--Carp family--Lobster, Hermitcrab, shrimps.
SUMMARY: Shows plants and animal relationships in their natural habitats.

1 Animals--Habits and behavior 2 Nature study 3 Color of animals 4 Plants

591

S 308 Life sciences (Slides)
Imperial Film Company, n.d.
80 col. slides 2in. x 2in. in carousel

10-12 CONTENTS: Life sciences: group I and II -human biology--Life sciences: group III and IV.

1 Life (Biology) 2 Biology 3 Insects 4 Microorganisms

574

K 159 Life on the farm (Filmstrips)
Encyclopaedia Britannica Films Inc., 1953
6fs. color 35mm. approx. 45fr. ea.

Captioned filmstrips.
K-3 CONTENTS: Milking--Gathering eggs--Feeding the animals--Haying--Picking vegetables --Picking fruit.
SUMMARY: Provides a visual example for city children to view country life.

1 Farm life 2 Country life 3 Domestic animals

630.1

K 175 Limnology test kit, model AM-02 (Kit)
LaMotte Chemical Products Co., distributed by Ward's Natural Science, 1972
suitcase kit containing 6 different boxes of testing equipment for water pollution; 6 sampling bottles; 4 paperbacks

10-12

Teacher's guides.
CONTENTS: Paperbacks: Limnology, an introduction to the fresh water environment--Investigating water problems--A study of water quality--A water analysis

(Continued on next card)

K 175 Limnology test kit, model AM-02 (Card 2)

manual--Components needed for chemical tests: Dissolved oxygen--Combination nitrate and phosphate--Wide range pH--Silica --Calcium-magnesium total hardness--Carbon dioxide.

SUMMARY: A study of the changing conditions of ponds, lakes, marshes, streams, and rivers.

1 Water--Pollution 2 Water--Analysis

614

GA 142 Litterbug (Game)
Urban Systems Inc., 1970
game with various parts

Teacher's guide.
CONTENTS: Playing board 19in. (folds); spinner; die with colored dots; 4 shakers; 104 trash pieces ½in. x ½in.
SUMMARY: Teaches students the evil of littering and the importance of picking up trash.

K-3

1 Pollution 2 Sanitation 3 Games, Educational

301.3

MP 237 Living earth (Motion picture)
Pyramid Films, 1971
10min. sd. color 16mm.

SUMMARY: Portrays the wonder and beauty of Thoreau's vision of the world.

7-9

1 Thoreau, Henry David, 1817-1862 2 Nature study

814

73-712363

K 34 Living things, alpha (Kit)
Benefic Press, 1971
kit with various media

Guide and index with bibliography in one book.
Captioned filmstrips.
CONTENTS: 4 filmstrips color 35mm, approx. 41fr. ea.--25 texts (5) copies of each 4 titles: Exploring and understanding: Plant structure-Plant functions-Insects-Birds--5 copies of science through experiments--1 copy of Science and scientists--Class assignment chart 19in. x 14in.

7-9

1 Science--Study and teaching 2 Plants 3 Insects 4 Birds

507

K 35 Living things, beta (Kit)
Benefic Press, 1971
kit with various media

Guide and index with bibliography in one book.
Captioned filmstrips.
CONTENTS: 4 filmstrips color 35mm, approx. 45fr. ea.--25 texts (5) copies of each 4 titles: Exploring and understanding: Fish -Mammals-Amphibians and reptiles-Human body--5 copies of science through experiments--1 copy of Science and scientists--Class assignment chart 19in. x 14in.

7-9

1 Science--Study and teaching 2 Fishes 3 Mammals 4 Amphibians 5 Reptiles 6 Anatomy

507

MP 202 Lorax (Motion picture)
BFA Educational Media, 1972
25min. sd. color 16mm.

Teacher's guide.
SUMMARY: An introduction to conservation and pollution, this is the story of the greedy Once-ler, who disregards the Lorax's warning and chops down all the Truffula trees in order to make thousands of Thneeds--which everyone buys and nobody needs.

4-6

1 Ecology 2 Natural resources

301.3

FL 263 Making charcoal-fuel for early industry (Motion picture) Ealing Corp., 1968
4min. sl. color super 8mm. (Pioneer Crafts)

10-12 Loop film mounted in cartridge.
Film notes on cartridge case.
SUMMARY: Shows how charcoal was made by the American pioneers.

1 Charcoal 2 Frontier and pioneer life

372.6

Fi A 68-3133

FC 103 Mammals (Flash cards)
Renwal Products Inc., 1968
48 colored flashcards 6in. x 3in. (Teach-me about)

4-6 Teacher's guide.
Descriptive notes on back of each picture.
SUMMARY: Designed to provide the student with a ready means of comparison and association of the characteristics of 48 mammals.

1 Mammals

599

K 71 Mammals; from the tiny shrew to the giant whale (Kit) Random House, Inc., 1972
50fr. color 35mm. ; cassette: 1 7/8ips. dual track; 5 books (Micro learning unit)

4-6 Guide.
CONTENTS: Filmstrip and cassette: Mammals, from the tiny shrew to the giant whale. Books: Small mammals are where you find them--Surprising kangaroos--Mammals, and how they live--The mighty bears--The look-it-up book of mammals.

1 Mammals 2 Kangaroos 3 Bears

599

K 53 Man and environment: a changing relationship (Kit) Denoyer-Geppert, 1973
1 kit various media (Earth center)

K-3 CONTENTS: 14[illegible] activity cards--Program guide and resource book--Picture pack (20) 7in. x 7in.--3 blow-up globes 12in. in diameter--30 buttons--7 Duplicating masters--Earth poster 53 1/2in. x 42 1/2in.--North America map 43 1/2in. x 34 1/2in.--First 48 states map 43 1/2in. x 34 1/2in.--Alaska map

(Continued on next card)

K 53 Man and environment: a changing relationship (Card 2)

34in. x 25 1/2in.--Hawaii map 30 1/2in. x 18 1/2in.--9 colored cellophanes--8 clay sticks--3 compasses and 1 Thermometer--Masking tape in dispenser--4 marking pens--Flashlight--Soil, with seed--Sand--Work tray--19 Sound sheets.

1 Human ecology 2 Man--Influence of environment 3 Nature study

574

K 318 Man and his environment (Kit)
Urban Media Materials, Inc., 1973
2fs, color 35mm. approx. 55fr. ea. and cassette: 1 7/8ips single track 2s.

4-6 Teacher's guide.
SUMMARY: First filmstrips presents an impressionistic view of our environmental situation and the second filmstrips sketches in the particulars of man's place in the web of life.

1 Man--Influence of environment 2 Pollution 3 Ecology

301

FL 206 Man and living things (Motion picture)
Hubbard Scientific Co., 1972
4min. si. color super 8mm. (Ecology and environmental studies)

Loop film mounted in cartridge.
4-6 Teacher's guide and student study guide.
SUMMARY: Shows man's state of interdependence with other living things and describes the subtle and vital balance that must be maintained.

1 Ecology 2 Man--Influence on nature

574.5

72-701616

FL 205 Man in the biosphere (Motion picture)
Hubbard Scientific Co., 1972
4min. si. color super 8mm. (Ecology and environmental studies)

Loop film mounted in cartridge.
4-6 Teacher's guide and student study guide.
SUMMARY: Shows how man differs from animals by his ability to think but how man alters the environment by building superhighways, spraying insecticides, draining swamps, etc.

1 Man--Influence on nature 2 Man--Influence of environment 3 Pollution

574

K 113 Man and nature (Kit)
AVI Associates, distributed by Teaching Resources Films, 1970
5fs. color 35mm. approx. 55fr. ea. and 3 phonodisc: 12in. 33 1/3rpm. (Environment of man, set 2)

Teacher's guide.
4-6 CONTENTS: Population-the numbers game--concrete habitat--The busy body--Unthinking man--Man: the builder.
SUMMARY: Survey man's remarkable capacity for building in one area and destroying in another.

1 Man--Influence of environment 2 Conservation of natural resources 3 Man--Influence on nature

301.3

FL 207 Man, technology, and pollution (Motion picture)
Hubbard Scientific Co., 1972
4min. si. color super 8mm. (Ecology and envriornmental studies)

Loop film mounted in cartridge.
4-6 Teacher's guide and student study guide.
SUMMARY: Shows the effects on the environment of man's increased use of machines and technology, noting particularly the use of fossil fuels and pesticides.

1 Man--Influence on nature 2 Pesticides

574.5

72-701618

F 77 Man and the city (Kit)
Warren Schloat Productions, 1972
2fs. color 35mm. approx. 70fr. ea. and 2 cassettes: 1 7/8ips. dual track audible and inaudible

Teacher's guide.
7-9 SUMMARY: Sets fourth theories about consequences of overpopulation and the continued failure to make cities liveable. Describes the necessity to plan cities in accordance with the basic need of man.

1 City life 2 Cities and towns--Planning 3 Human ecology

301.3

FL 262 Mangrove swamp: succession (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm. (Ecology of North America)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Shows the mangrove fringe forest and areas of higher ground behind, with explanations of the succession that has taken place. Includes an investigation of the ground cover.

1 Mangrove swamps 2 Forest ecology 3 Plant succession 4 Ecology

581.5

75-706426

K 344 Man's natural environment: crisis through abuse (Kit) Guidance Associates, 1970
2fs. color 35mm. approx. 91fr. ea. and 2 cassettes: 1 7/8ips dual track

7-9

Discussion guide.
SUMMARY: Examines the effects of air and water pollution on human and animal life, describes the deterioration of natural resources and discusses plans and programs underway to reverse this trend.

1 Conservation of natural resources
2 Pollution

628 79-735490

K 122 Mass media: impact on a nation (Kit) Guidance Assoc., 413 508, 1971
2fs. color sd. 35mm. approx. 72fr. ea.; 2 cassettes: 1 7/8ips. dual track

7-9

Guide.
Part I: Power and functions, reviews nation-wide influence of the press and broadcast media, and Part II: Responsibilities and restraints, examines the controversy of broadcast media's responsibility to the public.

1 Communication 2 Journalism 3 Television broadcasting

301.16

K 9 Mapping (Kit)
Webster Division McGraw-Hill Book Co., 1968
kit with various pieces.

4-6

Teacher's guide.
CONTENTS: 4 measuring wheels--6 geoboards (10 pins)--1 geoboard (25 pins)--2 plastic boxes--5 plastic sheets--24 wood dowels--10 lbs. modeling clay--50ft. dark heavy yarn--5 felt pens--10 grease pencils--5 thermometers--2 balls of string--10 compasses--300

(Continued on next card)

FL 277 Mass wasting (*Motion picture*) Ealing Corp., 1967. Made by Maurice Schwartz.

8 min. sd. color. 8 mm. (The Changing earth)

Loop film mounted in cartridge. Issued in super 8 mm. and in standard 8 mm.
With film notes on cartridge case.

10-12

Summary: Shows examples of a variety of landslides along with precipitation factors, including a slope undercut by a stream, the collapse of a wet, steep slope, and the accumulation of loose debris from a cliff.

1. Landslides. 2 Physical geography. ~~I. Ealing Corporation, Cambridge, Mass. II. Series: The changing earth (Motion picture)~~

Fi A 67—1305

Ealing Corporation
for Library of Congress

(68k30)

K 9 Mapping (Card 2)

white, unlined index cards--75 sheets of graph paper--25 clear acetate sheets--3 plastic test tubes--6 steel angle braces--6 steel plated screw eyes--300 rubber bands.
SUMMARY: Through mapping games, children are motivated to learn size, shape and proportion; spatial relations; distance; elevation; and create codes for the maps they make.

1 Maps 2 Games, Educational

301.3

K 96 Material cycles in nature (Kit)
Denoyer-Geppert Audio-Visuals, 1970
55 colored slides 2in. x 2in. in carousel (Investigations in ecology: a biological approach)

With teacher's guide.

10-12

SUMMARY: Describes the earth as a closed system in which chemicals necessary to life are produced, utilized, and recycled. Illustrates such material cycles as the water cycle, mineral cycles, carbon cycle, and nitrogen cycle, shows the role of these cycles, and explains the interrelationship of the material cycles.

1 Materials 2 Periodicity 3 Ecology

574.5

K 36 Matter and energy, alpha (Kit)
Benefic Press, 1971
Kit with various media

Guide and index with bibliography in one book.
Captioned filmstrips.
7-9 CONTENTS: 4 filmstrips, color, 35mm, approx. 64fr. ea.--25 texts (5) copies of each 4 titles: Exploring and understanding: Machines-Electricity-Magnets and electromagnets -Rockets and satellites--5 copies of science through experiments--1 copy of Science and the scientist--Class assignment chart 19in. x 14in.

1 Science--Study and teaching 2 Machines
3 Electricity 4 Magnets 5 Rockets

507

K 37 Matter and energy, beta (Kit)
Benefic Press, 1971
Kit with various media

Guide and index with bibliography in one book.
Captioned filmstrips.
7-9 CONTENTS: 4 filmstrips, color, 35mm, approx. 50fr. ea.--25 texts (5) copies of each 4 titles: Exploring and understanding: Light -Sound-Heat-Chemistry--5 copies of science through experiments--1 copy of Science and scientists--Class assignment chart 19in. x 14in.

1 Science--Study and teaching 2 Light
3 Sound 4 Heat 5 Chemistry

507

FS 228 Measuring (Filmstrip)
Encyclopaedia Britannica Films, Inc., 1966
5fs. color 35mm. approx. 50fr. ea.

Captioned filmstrips.
4-6 CONTENTS: Metric system of measuring--Measuring distance--Measuring weight--Measuring volume and density--Measuring time by the sun and the stars.
SUMMARY: Designed to demonstrate important concepts in measuring.

1 Measuring instruments 2 Metric system

510

MP 253 Man at bay (Motion picture)
King Screen Productions for Holt, Rinehart and Winston, 1970
26min. sd. color 16mm. (Environmental series)

10-12 Study guide.
SUMMARY: A case history of the imminent destruction of San Francisco Bay by man made pollution.

1 Water--Pollution--San Francisco Bay 2 Water --Pollution

333.9

70-712558

SP 296 Metamorphic rocks (Specimens)
Educational Manpower Inc., n.d.
32 samples of rocks

In chart form 15in. x 23in. mounted in frame, with descriptions.
7-9

1 Rocks 2 Mineralogy 3 Geology

543

FL 327 Miss Goodall and the wild chimpanzees (Motion picture) National Geographic Society and Wolper Productions. Released by Encyclopaedia Britannica Educational Corp., 1967
29min. sd. col. super 8mm. (Man: A course of study)
4-6

Loop film mounted in cartridge.
SUMMARY: Describes the experience of a 26-year old English girl in the jungles of East Africa, where she observed and lived

(Continued on next card)

FL 327 Miss Goodall and the wild chimpanzees (Card 2)

with chimpanzees. Discusses the theory that the complete understanding of chimpanzees will lead man to a better understanding of himself.

1 Chimpanzees--Behavior 2 Lawick-Goodall, Jane Baroness van 3 Animals--Habits and behavior

599.8

FL 248 Mountain features (Motion picture) Ealing Corp., 1970
4min. si. color super 8mm. (Picture dictionary of geographical terms)

7-9

Film loop mounted in cartridge.
Film notes on cartridge case.
SUMMARY: Illustrates and defines visually 28 different features, including mountain range; snow-line; ridge; snow-cornice; valley shaped by running water; valley shaped by glacier; volcanic cones; lava field; and crater lake.

1 Mountains--Terminology 2 Mountains

551.4

FL 359 Money pool: investment and finance (Motion picture) Ealing Corp., 1969
4min. si. color super 8mm. (Elementary economics)

10-12

Loop film mounted in cartridge.
Film notes on cartridge case.
SUMMARY: Presents the basic concepts that when people save money at the bank, it creates a fund from which others may borrow, at a price to increase their productivity; and that the money used in this way is called capital and acts as a multiplier in creating better goods and servises.

1 Money 2 Capital 3 Economics

372.8 79-700667

GA 246 Mouse in the maze (Game)
Educational Research Council of America, 1971
game with various material

7-9

Teacher's guide and game rules.
CONTENTS: 3 sets of punched cards: Species of animals (3)--Complexity of the maze (4)--Trial number (20)--6 time cards, all cards 8½in. x 11in.--1 dice.
SUMMARY: Uses computer designed cards to simulate the learning behavior of small animals. It demonstrates key principles of experimental design.

1 Animals--Habits and behavior 2 Games, Educational

591

FL 212 Moose (Motion picture)
Troll Associates, 1970
4min. si. color super 8mm. (Hoofs, claws and antlers)

4-6

Loop film mounted in cartridge. Guide.
SUMMARY: Moose are the largest members of the deer family, but among the least gregarious, tending to live in small family groups rather than in large herds. They are semi-aquatic and are usually found along the banks of rivers, streams and beaver ponds, where they feed on willows and water plants. Great, dignified bulls with huge, palmated antlers contrast dramatically with shy, leggy newborn calves.

1 Moose 2 Animals--Habits and behavior

591

MP 201 Movement exploration: what am I (Motion picture) Film Associates of California, 1968
12½in. sd. color 16mm.

K-3

With study guide.
SUMMARY: Presents views of animals and objects in motion. Designed to motivate young children in sensorimotor activities for perceptual development.

1 Human mechanics 2 Motion 3 Perception

372.8

K 138 My senses and me (Kit)
Encyclopaedia Britannica, 1971
4fs. color 35mm. approx. 84fr. ea.; 4 cassettes: 1 7/8ips. dual track

Teacher's guide.(4)

K-3 CONTENTS: What do I see when I look?; What do I hear when I listen?; What do I feel when I touch?; What do I smell and taste?
SUMMARY: Photographs of familiar activities (many suggested by children), narration (read by children), and songs are designed to capture student interest and focus attention on the kinds of information perceived by each of the senses.

1 Senses and sensation 2 Perception

152

K 64 Nature study (Kit)
McGraw-Hill, 1954
6fs. color 35mm. approx. 45fr. ea.

Captioned filmstrips.

K-3 CONTENTS: The rocks around us--How plants help man--Growing new plants--What animals give man--Insect friends and enemies--Fun with stars.
SUMMARY: An introduction to the natural sciences making use of everyday experiences and observations and suggesting simple experiments.

1 Astronomy 2 Botany 3 Geology 4 Zoology

500.1

MP 266 National parks: America's legacy (Motion picture) National Geographic, 1973
24min. sd. color 16mm.

4-6 SUMMARY: Designed to help students better understand the significance and value of the National Parks in our increasingly urbanized environment.

1 Conservation of natural resources
2 National parks and reserves--U.S.

333.7

PI 239 Nature's communities: A coral reef (Pictures) Society for Visual Education, 1973
8 col. study prints 18in. x 13in. (Picture story study print set, SP 184)

Teacher's guide on verso of each picture.

4-6 CONTENTS: Coral reef panorama--Hydrocoral and sponges--School of barber fish--Sea lug and sea fan--Starfish--Parrot fish--Sea anemone and damselfish--Coral reef at night.

1 Coral reefs and islands 2 Marine animals
3 Ocean ecology

551.4

K 294 Nature from A to Z (Kit)
Golden Press, n.d.
22v. (A Golden Nature Guide)

4-6 CONTENTS: Birds--Butterflies and moths--Exotic plants--Fishes--Flowers--Fossils--Gamebirds--Insect pests--Landforms--Light and color--Mammals--Non-flowering plants--Pond life--Reptiles and amphibians--Rocks and minerals--Seashells--Spiders and their kin--Stars--Trees--Weather--Zoo animals--Zoology.

1 Nature study 2 Animals--Habits and behavior
3 Plants 4 Botany 5 Biology

574

PI 240 Nature's communities: A deciduous forest (Pictures) Society for Visual Education, 1973
8 col. study prints 18in. x 13in. (Picture story study print set, SP 180)

4-6 Teacher's guide on verso of each picture.
CONTENTS: Forest trail--Oak woods--Forest flower--Woodpecker--Wild turkeys--Young bob-cat--Forest in autumn--Centipede.

1 Forest ecology 2 Forest birds 3 Botany --Ecology

634.9

PI 241 Nature's communities: A forest develops (Pictures) Society for Visual Education, 1973
8 col. study prints 18in. x 13in. (Picture story study print set, SP 179)

4-6 Teacher's guide on verso of each picture.
CONTENTS: Lichen stage--Moss stage--Herb stage, pt. 1 and II--Shrub stage--Tree stage --Climax stage--Forest floor.

1 Forest ecology 2 Forest fauna 3 Botany --Ecology

634.9

PI 238 Nature's communities: An American desert (Pictures) Society for Visual Education, 1973
8 col. study prints 18in. x 13in. (Picture story study print set, SP 182)

4-6 Teacher's guide on verso of each picture.
CONTENTS: Desert panorama--Desert in bloom --Desert garden--Yucca moth--Cactus wren at nest--Lizard--Kangaroo rat--Coyotes.

1 Desert animals 2 Desert plants 3 Deserts

551.4

PI 242 Nature's communities: a freshwater pond (Pictures) Society for Visual Education, 1973
8 col. study prints 18in. x 13in. (Picture study print set, SP 181)

4-6 Teacher's guide on verso of each picture.
CONTENTS: Pond panorama--Water plants--Dragonfly naiad--Crayfish--Snapping turtle --Purple gallinule--Racoon with fish--Green tree frog.

1 Fresh-water ecology 2 Fresh-water biology 3 Fresh-water animals

574.92

K 50 Nervous systems (Kit)
Denoyer-Geppert, 1971
66 colored slides 2in. x 2in. in carousel

Teacher's manual.
Summary:

10-12
- Investigates degrees of sensitivity to the environment among representative animals of increasing complexity
- Studies the basic biological and physical principles involved in the regulation and coordination of animal behavior
- Examines increasingly complex neural processes among the more highly developed animals
- Highlights specialized sensory structures and focuses particularly on the structures of the human nervous system.

1 Anatomy, Comparative 2 Zoology 3 Animals

591

PI 243 Nature's communities: A tropical rain forest (Pictures) Society for Visual Education, 1973
8 col. study prints 18in. x 13in. (Picture story study print set, SP 183)

4-6 Teacher's guide on verso of each picture.
CONTENTS: Rain forest layers--Forest plants--Tree snail--Strangler fig--Squirrel monkey--Air plant--Anaconda--Macaws.

1 Forest ecology 2 Forest and forestry 3 Botany--Ecology

634.9

TR 310 Night sky (Transparencies)
Tecnifax Education Division, 1969
20 colored transparencies with overlays

Teacher's guide and index.

4-6 CONTENTS: Ursa major and Ursa minor--Leo --Perseus and Auriga--Cepheus and Cassiopeia --Cygnus and Lyra--Orion and Canis Major--Pegasus--Scorpius and Sagittarius--Corona Borealis--Sky wheel for person facing North --Sky wheel for person facing South.

(Continued on next card)

TR 310 Night sky (Card 2)

SUMMARY: Designed to help the student recognize selected stars and constellations in their special relationship to each other.

1 Stars 2 Solar system 3 Galaxies

523.8

K 125 How you know about plants (Kit)
Encyclopaedia Britannica Educational Corp., 1973
cassettes: 1 7/8ips. single track 2s.
5 books 32p. illus.

Teacher's guide.
CONTENTS: Books and cassettes correlated. Many plants--Where plants live--How plants grow--Plants and their seeds--Plants we need.
K-3 SUMMARY: Students learn about plants by comparing sizes, shapes, textures and the changing cycles of plant growth.

1 Plants

581

MP 224 Noise--Polluting environment (Motion picture)
Encyclopaedia Britannica Educational Corp., 1971
15min. sd. color 16mm.

With script.
10-12 SUMMARY: A study of noise pollution as exemplified by the problems emanating from traffic noises and the noise of airplanes in residential areas.

1 Noise--Pollution 2 City noise

614.7

78-712994

K 95 Nutritional relations in nature (Kit)
Dengyer-Geppert Audio-Visuals, 1970
59 colored slides 2in. x 2in. in carousel (Investigations in ecology: a biological approach)

With Teacher's guide.
10-12 SUMMARY: Investigates the food relationships that exist among organisms, illustrates several food chains, and classifies organisms as producers, consumers, or decomposers according to their nutritional roles. Explains the effects of predators, parasites, and saprophytes on other organisms, and examines several symbiotic relationships.

1 Food chains 2 Ecology

574.5

MP 256 North with the spring (Motion picture)
MP 257 Xerox Education Company, 1970
52min. sd. color 16mm. 2 reels (We need each other)

Discussion guide.
10-12 SUMMARY: Follows spring on a 17,000-mile journey from the Florida Everglades to the Canadian Arctic.

1 Ecology 2 Nature study 3 Spring

574

FI 89 Oceanography (Pictures)
Instructional Aids Inc., 19
36 colored study prints 13in. x 18in. divided into 6 set (6) prints each set.

Guide on reverse side of each print.
7-9 CONTENTS: Life in the sea, part 1 and 2 --Tools of oceanography--Topography of the sea floor--Sediments of the sea floor--Ocean meteorology.

1 Marine biology 2 Submarine geology
3 Oceanography

551.4

K 79 The Oceans (Kit)
Warren Schloat Productions, Inc., 1972
2fs. color 35mm. approx. 66fr. ea. and 2 cassettes: 1 7/8ips. dual track 2s. audible and inaudible

4-6 Teacher's guide.
SUMMARY: Teaches students an awareness of the importance of the chemical, physical and biological interactions in the sea.

1 Marine resources 2 Marine biology 3 Oceanography 4 Marine ecology

574.92

K 237 Our animal friends (Kit)
Baling Corp., 1971
6fs. color 35mm. approx. 43fr. ea. and 3 cassettes: 1 7/8ips. single track 2s. ea.

K-3 CONTENTS: In the circus--On the farm--In the zoo--In woods and parks--In the home--Animals and their young.
SUMMARY: Emphasizes identification and individual characteristics of common animals in their natural habitat.

1 Animals--Habits and behavior 2 Animals--Habitations

591

FL 324 Older infant, baboon (Motion picture)
National Science Foundation and the Ford Foundation, 1968
8min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Shows baboons from four months to one year.

1 Baboons 2 Monkeys 3 Animals--Habits and behavior

599.8

MP 230 Our changing cities: can they be saved? (Motion picture) Encyclopaedia Britannica Corp., 1972
17min. sd. color 16mm.

10-12 Teacher's guide.
SUMMARY: Contrasts man-made and natural environments, and illustrates how the natural environment is essential to man's survival.

1 Man--Influence of environment 2 Conservation of natural resources 3 Natural resources

333.7

MP 211 Once there were bluebirds (Motion picture)
Film Fair Communications, 1971
5min. color sd. 16mm. (Bill Martin's Freedom Series)

K-3 Guide in lid.
SUMMARY: Presents a film on ecology which will develop personal awareness and inspire a meaningful discussion and investigation.

1 Ecology 2 Man--Influence of environment 3 Pesticides and the environment

574

MP 206 People who fight pollution (Motion picture)
Churchill Films, 1971
18min. sd. color 16mm.

10-12 With study guide.
SUMMARY: Interweaves the working lives of an air-pollution-control inspector, a trash collector, and a foreman, showing the satisfaction that they get from their jobs and their dedication to preserving the environment.

1 Sanitation workers 2 Water--Pollution 3 Air--Pollution

574

K 57 Perception: birds (Kit)
Educational Dimensions Corp., 1969
2fs. color 35mm. approx. 70fr. ea. and 2 cassettes: 1 7/8ips. dual track
(The world around you)

7-9

Teacher's guide.
SUMMARY: Presents a series of color photographs of birds of the world against a background of sound and music.

1 Birds 2 Perception

152

K 178 Perception: the seasons (Kit)
Educational Dimensions Corp., 1970
2fs. color 35mm. approx. 65fr. ea. and 2 cassettes: 1 7/8ips. dual track

7-9

Teacher's guide.
SUMMARY: Shows scenes which characterize nature during the four seasons, and examines the seasons of man and his celebrations of the natural and social seasons.

1 Seasons 2 Perception

372.3

75-737967

K 56 Perception: the city (Kit)
Educational Dimensions Corp., 1970
2fs. color 35mm. approx. 63fr. ea. and 2 cassettes: 1 7/8ips. dual track
(The world around you)

7-9

Teacher's guide.
SUMMARY: Presents scenes of various aspects of the city, including tenements and balloons, lights and shadows, signs and patterns, garbage and fountains, people, animals and sculpture.

1 Cities and towns 2 Perception

152

79-737968

K 59 Perception: The West (Kit)
Educational Dimensions Corp., 1972
2fs. color 35mm. 79fr. ea. and 2 cassettes: 1 7/8ips. dual track

7-9

Teacher's guide.
SUMMARY: Land and the people of the West, their arts, crafts; the ruins of the past and the garish neon of today.

1 The West 2 Nature photography 3 Perception

152

K 58 Perception: the sea (Kit)
Educational Dimensions Corp, 1972
2fs. color 35mm. 83fr. ea. and 2 cassettes: 1 7/8ips. dual track

7-9

Teacher's guide.
SUMMARY: Underwater shots; a day at the beach; man, the sea and art, and more.

1 Sea 2 Nature photography 3 Perception

152

K 231 Phosphate test (Kit)
Hach Chemical Company, n.d.
kit with various chemical samples

7-9

Directions
CONTENTS: Ammonium molybdate, 2oz.--50 phosphate powder pillows--Glass viewing tube --Stopper--Color standard ampule, 2ppm and 10ppm--Clippers.
SUMMARY: Complete test kit for phosphate using color standard with clear water sample comparisons made with samples enclosed.

1 Chemistry 2 Chemistry, Analytic 3 Chemical apparatus 4 Phosphates

543

FL 204 Physical environment (Motion picture)
Hubbard Scientific Co., 1975
4min. si. color super 8mm. (Ecology and environmental studies)

Loop film mounted in cartridge.
Teacher's guide and student study guide.
4-6 SUMMARY: Shows how the two major components of the physical environment, climate and topography, determine the type of ecosystems that exist in various parts of the biosphere.

1 Geographical distribution of animals and plants
2 Ecology

574.5

72-701627

S 304 Plant anatomy (Slides)
Imperial Film Company, n.d.
73 colored slides 2in. x 2in. in carousel

10-12 CONTENTS: Plant anatomy--Plant growth-secondary growth--Plant stems--Plant roots and leaves.

1 Plants 2 Growth (Plants) 3 Botany

581

S 313 Physical geography (Slides)
American Library Color Slide Co., Inc., T 0104, n.d.
100 color slides 2in. x 2in. in 2 carousels

7-9 Index
SUMMARY: Climatology, soils, vegetation, physiographic regions of the United States.

1 Earth 2 Climate 3 Physical geography--U.S.

551.4

S 22 Plant ecology, set 2 (Slide)
Carolina Biological Supply Co., n.d.
20 colored slides 2in. x 2in.

Guide.
7-9 CONTENTS: Ligustrum--Soil formation--Soil building--(2) Nitrogen fixing--Plant dissemination--Yucca flower--Water destroying forest--Sand dune destroying forest--(2) Schrankia microphylla--Insectivorous plant--Growth response to touch--Wild lettuce--(2) Eschscholtzia californica--

(Continued on next card)

GA 44 Planet management (Game)
Educational Research Council of America, distributed by Houghton Mifflin Co., 1971
game with various pieces

Rules and data.
7-9 CONTENTS: 5 project guides--Planetary status ledger--4 transparencies: population-food-income-environmental quality--50 project cards.
SUMMARY: Puts players in control of an imaginary planet with a population explosion and a pollution problem.

1 Pollution 2 Population 3 Human ecology
4 Games, Educational

301.3

S 22 Plant ecology, set 2 (Card 2)

Irrigation ditch--Arctic tundra--Response to wind--Insect gall.
SUMMARY: Presents examples of the cause-and effect relationship between plants and their environment.

1 Soils 2 Growth (Plants) 3 Plants--Soilless culture 4 Plants

580

K 92 Plant growth lab (Kit)
Hubbard Scientific Company, 1967
kit with various material

Teacher's lesson plan.
4-6 CONTENTS: 3 transparent soil chambers--12 plastic pots 4in.--3 transparent plastic pots 2in.--1 transparent conical pot cover--1 opaque conical pot cover--1 conical pot cover with hole--1 yellow conical pot cover--1 red conical pot cover--2 watering trays

(Continued on next card)

K 92 Plant growth lab (Card 2)

5 1/2in.--4 planting trays 4in.--3 planting trays 2in.--6 transparent plastic squares--2 opaque plastic squares--24 blotting paper squares--4 petri dishes with lids--12 blotting paper discs--1 hand lens magnifier--8 plastic clips--2 oz. fertilizer--30 peat pots 2in.--20 peat pots 3in.--1 nylon cord 4ft.--1 test tube--6 red food coloring tablets--1 plastic spoon--1 plastic ruler 12in.--1 sprinkler head--1 plastic

(Continued on next card)

K 92 Plant growth lab (Card 3)

trowel--15 lbs. garden loam--5 lbs. sand--1 lb. pulverized clay--1/4 lb. Vermiculite--1 pkg. green bean seed--1 pkg. lima bean seed--1 pkg. beet seed--1 pkg. bird seed--1 pkg. marigold seed--1 pkg. radish seed--2 plastic utility pails.

SUMMARY: Students plant, transplant, set up experiments, and observe germination, root and plant growth, plus the effects of light and moisture.

1 Plants
3 Growth (Plants)
2 Plant breeding

581

K 245 Plants (Kit)
Singer, Society for Visual Education, 1970
kit of various multi-media

Teacher's guides.
7-9 CONTENTS: 9 filmstrips: Wonderful world of plants--Plants and how they grow--Flowers, their parts and functions--Fruits, their growth and classification--Identifying common trees--How plants grow and reproduce--Mushrooms--Dependent plants--Finding out about green plants--3 sets study prints (8ea. set):

(Continued on next card)

K 245 Plants (Card 2)

Spring wild flowers--Common fruits--Broadleaf trees--2 cassettes: 1 7/8ips. single track 2s.--6 slidesets (20 slides ea. set): Plant parts--What is a plant family?--Plants that do not flower--Plant adaptations--Fruits and seeds--Common garden and wild flowers--2 innovation cassettes: 1 7/8ips. single track 2s.

1 Plants 2 Trees 3 Fruit 4 Flowers

580

K 127 Plants and their environment (Kit)
Imperial Film Co., 1966
4fs. color 35mm. approx. 36fr. ea. and 4 cassettes: 1 7/8ips. dual track

Teacher's guide.
7-9 CONTENTS: How flowers transfer pollen--How plants use leaves--How seeds and fruits travel--How plants use other plants.
SUMMARY: Helps students to understand common plants not as isolated species but as members of a living and changing environmental system.

1 Plants
plants
2 Fertilization of
3 Plant propagation

581

GA 343 Pollution (Game)
Houghton Mifflin, 1971
1 game various pieces

7-9

Teacher's guide and rule book.
CONTENTS: Game board 23in. x 21in.; 2 dice; 4 small plastic cards; 8 election and 22 take a chance cards 4 1/2in. x 2 1/2in.; play money; 4 election ballots.
SUMMARY: Allows students to simulate in a game the progressive contamination of our environment and then try to reverse the contamination to preserve the environment.

1 Pollution 2 Man--Influence of environment

301.3

K 13 Pollution (Kit)
Coronet Films, 1972
6fs. color 35mm. approx. 50fr. ea. and 6 cassettes: 1 7/8ips. dual track 13 1/2min.

4-6

Teacher's guide.
CONTENTS: What is it?--Our air--Our water --Solid wastes--Pesticides and radioactive wastes--What we can do.
SUMMARY: Shows causes and effects of environmental pollution and suggests ways individuals and groups can help restore environmental balances.

1 Air--Pollution 2 Water--Pollution 3 Pesticides and the environment 4 Radioactive fallout 5 Conservation of natural resources

574.5

K 162 Pollution of the atmosphere (Kit)
H.M. Stone Productions, 1971
42fr. color 35mm. cassette: 1 7/8ips. dual track (Elementary science)

K-3

Guide and resource manual.
SUMMARY: Presents the problem sources of air pollution, portrays the effects of air pollution on all living things, and provides possible solutions for each problem.

1 Air--Pollution

372.3

72-738678

K 161 Pollution of the waters (Kit)
H.M. Stone Productions, 1971
40fr. color 35mm. cassette: 1 7/8ips. dual track (Elementary science)

K-3

Guide and resource manual.
SUMMARY: Covers the cause of water pollution, shows the effects of water pollution on fish, wildlife and man, and presents possible solutions for alleviating the pollution.

1 Water--Pollution

372.3

76-738679

K 229 Pollution test kit (Kit)
Envirco Inc., 1971
kit with various testing equipment for pollution

7-9

Teacher's guide.
CONTENTS: 5 plastic dropping bottles with hinged caps--2 bored corks--plastic smoke trap tube--2 plastic straws--plastic funnel --plastic measuring spoon--3 plastic microscope slides--plastic magnifying glass (5X) --4 glass test tubes--5 aluminum weighing dishes--5 packets of chemicals: NBHM, potassium permanganate, ferric chloride, silica gel, activated charcoal--2 water soluble pla-

(Continued on next card)

K 229 Pollution test kit (Kit)

stic packets--1 package filter paper--ecology flag decal--2 lids for test tubes--biodegradable piece of paper--smoke chart.
SUMMARY: Directed at student to make a positive step toward environmental improvements, by detecting air, water and solid pollutants.

1 Water--Pollution 2 Air--Pollution 3 Pollution

574

GA 184 Population (Game)
Urban Systems Inc., 1971
game with various parts

Teacher's guide.
CONTENTS: Playing board 20in. square (Folds) Event cards, decision cards, planetary cards 3in. x 2in. ; money; dice; plastic rings; pyramid pad.
7-9 SUMMARY: Students face and solve the crisis of overpopulation in a rapidly developing country.

1 Population 2 Human ecology 3 James, Educational

301.3

FL 208 Population (Motion picture)
Hubbard Scientific Co., 1972
4min. si. color super 8mm. (Ecology and environmental studies)

Loop film mounted in cartridge.
4-6 Teacher's guide and student study guide.
SUMMARY: Establishes the ecological principle that every population has a natural limit. Describes the population explosion.

1 Ecology 2 Population

574.5

62-701628

FL 276 Pond: food web (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm. (Ecology of North America)

Loop film mounted in cartridge.
Film notes in cartridge case.
10-12 SUMMARY: A study of life in a pond. Points out the interrelationships of the insects and animals and shows a representative of each main area of the food web.

1 Pond ecology 2 Food chains 3 Ecology

591.5

72-706428

K 351 Powers of nature (Kit)
National Geographic, 1973
5fs. color 35mm. approx. fr. ea. and cassettes: 1 7/8ips

CONTENTS: Weather and man--Floods--Forest
7-9 fires--Earthquakes--Volcanoes
SUMMARY: Shows scientific efforts to understand, predict, and control upheavals of nature. Slashing hurricanes and battering hailstorms. Fiery volcanoes and convulsive earthquakes. Pounding flood waters and raging forest fires.

1 Ecology 2 Man--Influence on nature 3 Disasters 4 Weather control

574

FL 183 The Pond environment Part 1: Plankton (Filmloop) Thorpe Films, 1970
4min. si. color super 8mm. (Ecology: fresh water environments)

Loop film. Film notes on cartridge case.
10-12 SUMMARY: Demonstrates collection, examination, and identification of the major types of living organisms found in the plankton of lakes and ponds. Shows how the microcrustaceans, planktonic insect larvae, protozoans and diatoms are adapted to their environment.

1 Plankton 2 Adaptation (Biology) 3 Pond ecology

574.929

73-712109

Fl 249 Prairie features (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm. (Picture dictionary of geographical terms)

Film loop mounted in cartridge.
Film notes on cartridge case.
7-9 SUMMARY: Visually defines 23 features of the prairie environment, including references to man-made aspects of the environment. Terms labeled and shown include foothills; gullies; crop rotation; wind-break; irrigation canal; grazing land; and corn field.

1 Prairies--Terminology 2 Prairies

551.4

FS 301 Prehistoric life (Filmstrip)
Encyclopaedia Britannica Films Inc., 1953
6fs. color 35mm. approx. 55fr. ea.

Captioned filmstrips.
CONTENTS: Discovering fossils--The story fossils tell--The coming of reptiles--The rise of the dinosaurs--Triumph of the dinosaurs--Age of mammals.
4-6 SUMMARY: Illustrates evolutionary development from invertebrates to mammoths.

1 Fossils 2 Mammals, fossil animals 3 Extinct

569

FL 275 Price is right; supply and demand (Motion picture) Ealing Corp., 1969
4min. si. color super 8mm. (Elementary economics)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Presents the basic concepts that all goods and services have a price, that competition determines market price, and that prices are flexible and result from the balance between the producers' supply of a good or service and the consumers' demand for it.

1 Exchange 2 Supply and demand 3 Economics

372.8

76-700669

FS 154 Primary science (Filmstrips)
Encyclopaedia Britannica Films Inc., 1955
6fs. color 35mm. approx. 38fr. ea.

Captioned filmstrips.
CONTENTS: Night and day--The seasons--Our weather--The air--The earth--The night sky.
K-3 SUMMARY: Introduces children to some of the complexities of space science, earth science, weather, physics, ecology, astronomy.

1 Seasons 2 Weather 3 Earth 4 Science--Study and teaching

507

K 93 Problems in ecology (Kit)
Denoyer-Geppert Audio-Visuals, 1970
62 colored slides 2in. x 2in. in carousel (Investigations in ecology: a biological approach)

10-12 With teacher's guide.

SUMMARY: Explains the principles of ecology, and presents such ecological problems as breaks in food chains, overpopulation, use of insecticides, pollution, and utilization of atomic energy.

1 Ecology 2 Man--Influence on nature

574.5

MP 226 Problems of conservation: air (Motion picture) Encyclopaedia Britannica Corp., 1968
15min. sd. color 16mm.

Teacher's guide.
SUMMARY: Studies the adverse effects of air pollution on health and property when wastes are allowed to permeate the air freely. Shows steps which are being taken to reduce air pollution through the use of technological legislative controls, and specifies the percentages of various gases that compose the troposphere.
10-12

1 Air--Pollution 2 Pollution

614

FIA 68-2528

MP 220 Problems of conservation: forest and range (Motion picture) Encyclopaedia Britannica Educational Corp., 1970
11min. sd. color 16mm.

Teacher's guide.
SUMMARY: Shows how large areas in the United States are used as productive forest and range land. Presents the struggle to retain large undeveloped areas in the face of demands for food, lumber, and recreation.
10-12

1 Forest conservation--U.S. 2 Conservation of natural resources

333.7

72-702913

MP 228 Problems of conservation: minerals (Motion picture) Encyclopaedia Britannica Educational Corp., 1969
16min. sd. color 16mm.

Teacher's guide.
10-12 SUMMARY: Shows examples of man's reliance on non-renewable minerals and presents several approaches to conservation measures. Includes suggestions regarding finding a new source of minerals, employing more complete extration methods, substituting other minerals, such as plastics and fiber glass, and importing ores from foreign countries.

1 Mines and mineral resources 2 Conservation of natural resources

333.8

72-704833

MP 229 Problems of conservation: water (Motion picture) Encyclopaedia Britannica, 1969
16min. sd. color 16mm.

Teacher's guide.
10-12 SUMMARY: Describes communities and localities which have water supply problems, and shows the pollution of the Great Lakes.

1 Water conservation 2 Water--Pollution 3 Conservation of natural resources

339.49

76-702919

MP 232 Problems of conservation: our natural resources (Motion picture) Encyclopaedia Britannica Corp., 1970
11min. sd. color 16mm.

Teacher's guide.
10-12 SUMMARY: Identifies those natural resources which are in danger of depletion or destruction by man; discusses man's reliance on natural resources and his simultaneous misuse of them.

1 Conservation of natural resources

333.7

72-708911

MP 221 Problems of conservation: wildlife (Motion picture) Encyclopaedia Britannica Corp., 1970
13min. sd. color 16mm.

Teacher's guide.
10-12 SUMMARY: Explains the need for conservation of wildlife in order to preserve the ecological balance of nature. Describes the endangered status of many species today, what has been done to control impending extinction in the past, and what can be done in the future through refuges.

1 Wildlife--Conservation 2 Rare animals 3 Wildlife refuges

333.7

77-712293

MP 223 Problems of conservation: soil (Motion picture) Encyclopaedia Britannica Educational Corp., 1969
14min. sd. color 16mm.

Teacher's guide.
10-12 SUMMARY: Explains how soil is formed and points out the damaging effects of water and wind erosion and the loss of nutrients when the ground cover of vegetation is stripped away. Shows examples of the technical assistance of the U.S. Soil Conservation Service on projects that range from contour plowing to land-use planning.

1 Soil conservation 2 Conservation of natural resources

333.7

76-704834

FS 300 Processes of science: classifying (Filmstrip) RFA Educational Media, 1967
4fs. color 35mm. approx. 28fr. ea.

Teacher's guide.
4-6 CONTENTS: Size--Shape--Color--Ways of grouping.
SUMMARY: Introduces children to the process of classification by forming basic concepts about animals and about properties of size, shape and color.

1 Size and shape 2 Color of animals 3 Perception 4 Animals

535

K 80 Protective coloration (Kit)
BFA Educational Media, 1972
4fs. color 35mm. approx. 37fr. ea. and 2 cassettes: 1 7/8ips. single track 2s.

CONTENTS: Camouflage--Mimicry--Bright colors--Oddities.
7-9 SUMMARY: Explores natural camouflage, mimicry, warning, and distraction. Unusual examples illustrate the relationships of animals to environments and the coordination of color patterns and behavior patterns.

1 Color of animals 2 Variation (Biology)
3 Animals--Habits and behavior

591

FL 273 Quarter comes back: circulation of money (Motion picture) Ealing Corp., 1969
4min, si. color super 8mm. (Elementary economics)

Loop Film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Follows the journey of a coin as it goes through a chain of goods and services and is finally returned to the spender when he cashes a check.

1 Money 2 Exchange

327.8

70-700670

FL 274 Public transportation (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm. (Community services)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Shows how the public transportation system of a community combines the specialized skills of many people and many different kinds of equipment to provide mobility for the inhabitats.

1 Local transit 2 Transportation

372.8

72-705183

MP 261 Question of values (Motion picture)
The New Film Company, 1972
28min. color sd. 16mm.

7-9 SUMMARY: Deals with how a small Southern town deals with a variety of problems after electing its first Black Mayor in the early 1960's.

1 Blacks--Social conditions 2 U.S.--Race relations 3 Race problems

301.45

FL 280 Push a button: automation, labor saving (Motion picture) Ealing Corp., 1969
4min, si. color super 8mm. (Elementary economics)

Loop film mounted in cartridge,
Film notes on cartridge case.
10-12 SUMMARY: Presents the basic concepts that man invents and uses tools in order to make more efficient use of the resources available to him in producing what he needs.

1 Division of labor 2 Machinery in industry
3 Economics

372.8

GA 45 Redwood controversy (Game)
Educational Research Council of America, distributed by Houghton Mifflin Co., 1971
game with various pieces

Teacher's guide.
7-9 CONTENTS: 3 Proposal charts 22in. x 11in. --15 senator profile cards--6 witness profile cards--Transparencies: Election ballot--Card with rules for the senator leader --21 senators roles with rules.

(Continued on next card)

GA 45 Redwood controversy (Card 2)

SUMMARY: Participants debate proposals for a Redwood National Park. The ecological and financial aspects of conservation efforts are brought out.

1 Conservation of natural resources 2 Environmental policy 3 Natural resources 4 Forests and forestry 5 James, Educational

333.72

FC 102 Reptiles (Flash cards)
Renwal Products Inc., 1968
48 colored flashcards 6in. x 3in. (Teachme about)

4-6

Teacher's guide.
Descriptive notes on back of each picture.
SUMMARY: Designed to provide the student with a ready means of comparison and association of the characteristics of 48 reptiles.

1 Reptiles

598.1

MP 260 Redwoods (Motion picture)
King Screen Productions for Holt, Rinehart and Winston, 1972
20min. sd. color 16mm.

7-9

SUMMARY: ...a poetically filmed journey through one of nature's most beautiful and wonderful forest area.

1 Forest and forestry 2 Redwood 3 Trees

582

K 49 Respiratory systems (Kit)
Denoyer-Geppert, 1971
65 colored slides 2in. x 2in. in carousel

10-12

Teacher's manual.
Summary:
- Examines the role of oxygen in providing energy for cellular metabolism
- Highlights cellular respiration and shows its relation to the oxidation of foods
- Contrasts the respiratory requirements of water and land organisms, explaining the role of blood in the transport of oxygen and gaseous wastes
- Discusses the respiratory needs of representative animals, and the efficiency of their respiratory systems.

1 Anatomy, Comparative 2 Zoology 3 Animals

K 51 Reproductive systems (Kit)
Denoyer-Geppert, 1971
69 colored slides 2in. x 2in. in carousel

10-12

Teacher's manual.
Summary:
- Examines reproductive processes involving two organisms, and highlights the significance of mixing genetic traits
- Contrasts sexual reproduction with other processes such as binary fission, budding, alternation of generations
- Discusses the reproductive structures, the method of fertilization, and the development of the young among several species
- Examines the number of young produced, and the amount of parental care involved in selected representative species.

1 Anatomy, Comparative 2 Zoology 3 Animals

591

MP 236 Rise and fall of the Great Lakes (Motion picture) National Film Board of Canada, 1969
15min. sd. color 16mm.

7-9

SUMMARY: Uses animation, ballad singing, trick photography, and a canoe trip through the Great Lakes in showing how profoundly the last ice age affected the face of the land and how the Great Lakes system which was created continues to change, largely through the intervention of man.

1 Great Lakes 2 Water

977

72-705246

FL 251 River features (Motion picture)
Ealing Corp., 1970
4min. sl. color super 8mm. (Pictures dictionary of geographical terms)

Loop film mounted in cartridge.
Film notes on cartridge case.
7-9 SUMMARY: Illustrates 31 different terms related to rivers, including brook; cascade; waterfall; braided stream; watershed; flood plain; cataract; delta; estuary; and sea tide.

1 River--Terminology 2 Rivers

551.4

FL 272 Saugus Ironworks (Motion picture)
Ealing Corp., 1968
4min. sl. color super 8mm. (The beginnings of industry)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Describes the founding of the ironworks at Saugus, Mass., in 1646 and shows how the iron ore was melted and refined in a furnace and hammered into bars.

1 Iron industry and trade--Saugus, Mass.,
2 Saugus Ironworks Restoration

672

78-700368

SP 297 Rock cycle (Specimens)
Educational Manpower Inc., n.d.
samples of rocks

In chart form 15in. x 23in. mounted in frame, with descriptions.
7-9

1 Rocks 2 Mineralogy 3 Geology

543

K 124 Search for values (Kit)
Pflaum/Standard, 1972
program consisting of 44 spirit masters (Dimensions of personality)

Instructor's book.
CONTENTS: 7 units (44 lessons)--Competion --Authority--Time--Personal space--Images--Relationships--Commitment.
10-12 SUMMARY: Teaches students to come to grips with their personal value systems through self-reflection, peer interaction, and diary-keeping.

1 Human relations 2 Behavior 3 Social psychology 4 Values

301.15

K 233 Rotorod pollen and spore sampling (Kit)
Met-onics Associates, Inc., n.d.
kit with various accessories

Teacher's manual.
CONTENTS: 12v. battery--Tripod--Rotorod sampler--Tube silicone--Rods in transit and storage vial--Rod and stage adapter--Fixed collector sampling head.
10-12 SUMMARY: Spore and pollen sampling kit to collect spores and pollen at given seasons of the year.

1 Science--Experiments 2 Scientific apparatus and instruments 3 Pollen 4 Spores (Biology)

507

SP 298 Sedimentary rocks (Specimens)
Educational Manpower Inc., n.d.
40 samples of rocks

In chart form 15in. x 23in. mounted in frame, with descriptions.
7-9

1 Rocks 2 Mineralogy 3 Geology

543

FL 279 Shopping center (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm. (Community services)

Loop film mounted in cartridge.
Film notes on cartridge case.

10-12 SUMMARY: Illustrates the great variety of services conveniently concentrated in a shopping center and suggests the importance of such centers to the motorized shopper.

1 Shopping centers 2 Retail trade 3 Economics 4 Community life

330

S 312 Slide survey of geology (Slides)
American Library Color Slide Co. T 0005, n,d.
299 colored slides 2in. x 2in. in 4 carousels

7-9 Index.
SUMMARY: A basic compilation of geology slides with a large range of examples.

1 Geology 2 Earth 3 Physical geography

550

MP 241 Silent spring of Rachel Carson (Motion picture) CBS News, 1963
MP 242 54min. color sd. 16mm. 2 reels

7-9 SUMMARY: Discusses the pros and cons of the controversy over Rachel Carson's book Silent Spring, which contends that chemical pesticides cause more harm than benefits to living things and human beings because they are used improperly and their effects are not carefully studied before they are put on the market. Includes interviews with Rachel Carson, representatives of the chemical industry and government officials.

1 Pesticides and wildlife 2 Wildlife--Conservation 3 Pesticides and the environment

632

Fi 67-755

K 317 Small worlds of life (Kit)
National Geographic, 1972
7fs. color 35mm. approx. 70fr. ea. and 7 cassettes: 1 7/8ips dual track audible/inaudible

7-9 14 guides (2 for each filmstrips and cassettes)
CONTENTS: The pond--Coral reef--Apple tree--Desert--Tundra--Salt marsh--Everglades
SUMMARY: Complex relationships in a variety of environments. Ecological communities explored and explained.

1 Animals--Habits and behavior 2 Adaptation (Biology) 3 Botany--Ecology 4 Marine ecology

574

S 307 Simple life forms (Slides)
Imperial Film Company, n.d.
103 colored slides 2in. x 2in. in 2 carousels

10-12 CONTENTS: Bryophyta--Fungi and lichens --Thallophyta--Protozoa and coelenterata--Platyhelminthes and nemathelminthes--Pteridophyta and spermatophyta.

1 Ferns 2 Plants 3 Botany 4 Mosses 5 Bacteriology

574

GA 182 Smog (Game)
Urban Systems Inc., 1970
game with various parts

Teacher's guide.

10-12 CONTENTS: Playing board 20in. square (folds) plastic pegs representing industry, families, incinerators and dumps; 27 outrageous fortune cards 3 1/2in. x 2 1/2in.; budget settlement card; plastic rings; 4 tokens; 1 die; smoke plumes; money; score pad.
SUMMARY: Players battle business interests, public indifferences, and federal funding policies to bring back clear air.

1 Air--Pollution 2 Man--Influence of environment 3 Games, Educational

614

K 230 Smoking experiment kit (Kit)
Eduquip, 1970
kit of various apparatuses for testing smoking

4-6

Teacher's guide.
CONTENTS: Aspirator bulb--Jar of filters--2 plastic filter holders--Steel rod--Plastic stand--Comparator chart.
SUMMARY: Designed to allow the student to visually, as well as quantitatively, determine the various parameters concerning cigarette smoking.

1 Smoking ◯ 2 Tobacco
613.8

K 235 Soil: its meaning for man (Kit)
Warren Schloat Productions, Inc., 1972
2fs. color 35mm. approx. 60fr. ea. and 2 cassettes: 1 7/8ips. single track audible and inaudible

4-6

Teacher's guide.
SUMMARY: Teaches an understanding of how soil is created and illustrates the many widely different forms soil may take. Emphasizes the complexity of the interrelationships in natural communities and points up the need for understanding them and acting within their limits.

1 Conservation of natural resources
2 Soils 3 Soil ◯ conservation
631.4

K 128 Solid waste managment (Kit)
Pollution Control Education, distributed by McGraw Hill, 1973
kit with various multi-media (Priority one environment)

4-6

Teacher's guide.
CONTENTS: 150 student booklets (30 copies of each 5 lessons)--6 Duplication masters (investigations and 3-page unit test)--3 transparences--filmstrip--cassette: 1 7/8ips. single track 1s.--15 plastic cups--50 wooden stirrers--1 filtering apparatus, plastic--pyrex beaker--1 lb. gravel--1 lb. of sand--1 lb.

◯ (Continued on next card)

K 128 Solid waste managment (Card 2)

of soil--1 pkg. filter paper.
SUMMARY: Helps prepare students for the responsibility they will have as citizens to solve their community's solid waste problems. A desire to conserve resources is developed and then demonstrated in finding new ways to reuse things customarily discarded.

1 Pollution 2 Factory and trade waste. 3 Refuse and refuse disposal 4 Conservation of natural resources
◯ 301.3

MP 215 Sounds in the silent deep (Motion picture)
Moody Institute of Science, 1972
27min. sd. color 16mm.

10-12

Teacher's guide.
SUMMARY: Acquaints students with the world of undersea sound and with scientific approaches to sound detection.

1 Ocean sounds 2 Sounds 3 Marine biology
4 Oceanography
◯ 574.92

FL 287 The Struggle for survival: hatching turtles (*Motion picture*) Ealing Corp., 1969.

4 min. sd. color. super 8 mm. (Earth science)

Loop film. Film notes on cartridge case.

10-12

Summary: Shows Jacques Cousteau and the crew of the Calypso as they design and perform undersea experiments dealing with hatching turtles.

2. Marine animals

1. Sea turtles. I. Ealing Corporation, Cambridge, Mass.
Series: Earth science (Motion picture)

◯ 598.12 73-708556

Ealing Corporation
for Library of Congress

EP 168 Student rock identification (Specimens)
CENCO, Central Scientific, Co., n.d.
40 small rock specimens (10 sets)

Specimens are unnumbered and intended for student identification.

4-6

1 Rocks 2 Mineralogy 3 Geology

543

S 311 Survey of geomorphology (Slide)
American Library Color Slide Co., Inc., T0123, 19-
207 color slides 2in. x 2in. in 3 carousels

Index

7-9 SUMMARY: Economic geology, geophysics, historical geology, astronomy. Includes an introduction to the interpretation of geologic maps.

1 Geology, Economic 2 Geophysics 3 Geology--Maps 4 Geology, Stratigraphic 5 Astronomy

553

S 23 Survey of plant environments (Slide)
Carolina Biological Supply Co., n.d.
32 colored slides 2in. x 2in.

Guide.

7-9 CONTENTS: Azolla caroliniana--Oryza sativa--Nymphaea lekophylla--Lake shore--Arbor-vitae and larch swamp--Cypress trees--Cattails--Thermal algae--Beaver dam--Beaver house--Pine forest habitat--Hardwood forest--Pyrola elliptica (shinleaf)--Mountain bald--Phoradendron flavescens (Mistletoe)--Phoradendron flavescens--Plant community--Parasitic fungus--Saprophytic fungus--Shortgrass

(Continued on next card)

S 23 Survey of plant environments (Card 2)

plains--Desert habitat--Desert soil--Cactus wren's nest--Cereus giganteus--Arctic-Alpine--Arctic tundra--Claytonia acutifolia (arctic spring beauty)--Timberline--Timberline vegetation--Alpine meadow--Alpine meadow of another kind--Alpine flowers.

SUMMARY: A selected group of slides broken into three sections: Hydric, Mesic and Xeric. Illustrates the more commonly recognized phases of plant environments.

1 Alpine plants 2 Desert plants 3 Plant introduction 4 Botany

580

MP 258 Survival of spaceship earth (Motion picture)
MP 259 United Productions Limited, 1972
60min. sd. color 16mm. 2 reels

SUMMARY: A brutal look at the polluted world from earth, air and water.

10-12 The crux of the issue is the population explosion.

1 Air--Pollution 2 Water--Pollution 3 Pollution 4 Man--Influence of environment

574

MO 19 Talking flower (Model)
Denoyer Geppert, 1973
3-dimensional vinyl plastic flower; filmstrip: fr. color 35mm.; phonodisc: 12in. 33 1/3rpm; student activity sheets.

4-6

Resource manual

SUMMARY: Helps the student explore the amazing intricacies of the flower.

1 Flowers 2 Botany

582

MO 27 Talking torso and head (Model)
Denoyer-Geppert, n.d.
sexless torso and head model 37in. high with 10 removable sections; cassette: 1 7/8 ips. dual track; chart 43in. x 44in.; anatomy test sheets.

4-6 Teacher's manual.
SUMMARY: Displays both anterior and posterior surfaces of the complete human figure. Head may be removed to study cranial cavity. Lung, rib cage and diaphragm in removeable section. Internal organs lift out; heart is life size and has two parts.

1 Body, Human 2 Anatomy
611

K 129 Thermal water pollution (Card 2)

--pyrex beaker.
SUMMARY: Designed to make children appreciate the value of our waterways as a source of food and recreation and as a means of earning a living. They learn how thermal water pollution can destroy the balance of life in a water community.

1 Water--Pollution 2 Man--Influence of environment
614

K 145 That's no fair! (Kit)
Guidance Associates, 1972
2fs. color 35mm. approx. 50fr. ea. and 1 cassette: 1 7/8ips. dual track (First things: Values)

K-3 Teacher's guide.
SUMMARY: Presents two stories in which young people are faced with decisions of what is fair.

1 Human relations 2 Behavior 3 Values
301.15

K 19 Think metric: understanding and using the metric system (Kit) Denoyer-Geppert Audio-Visuals, 1973
80 colored slides in carousel

7-9 Teacher's guide.
SUMMARY: Designed to develop a knowledge of the metric system.

1 Metric system 2 Weights and measures
510

K 129 Thermal water pollution (Kit)
Pollution Control Education, distributed by McGraw-Hill, 1973
kit with various multi-media (Priority one environment)

4-6 Teacher's guide.
CONTENTS: 150 student booklets (30 copies of each 5 lessons)--4 duplication masters (investigation and the 3-page unit test)--3 transparencies--film loop--filmstrip--cassette: 1 7/8ips, single track 2s.--1 cooling tower--small funnel--crucible tongs--cooper tubing, 6in. long--sterno stove and fuel--thermometer

(Continued on next card)

K 151 This earth: a world of differences (Kit)
Guidance Associates, 1973
1 kit various multi-media

Teacher's guide.
CONTENTS: 2 sound filmstrips, 2 cassettes: 1 7/8ips.--1 silent filmstrip--6 photo study cards--1 game poster--1 stencil--1 poster--1 full-color poster--8 worksheets or instruction sheets (3 copies ea.)--8 copies of the booklet, Making classification keys.
4-6 SUMMARY: Program emphasizes the uniqueness of each individual organism; contrasts nature's preference for variety with human efforts to build uniformity.

1 Animals--Habits and behavior 2 Nature study
3 Ecology 4 Adaption (Biology)
574

K 220 This earth: everything fits together (Kit)
Guidance Associates, 1973
1 kit various multi-media

Teacher's guide.
4-6 CONTENTS: 3 filmstrips (2 sound, 1 silent) color 35mm. approx. 50fr. ea.--2 cassettes: 1 7/8ips. dual track--6 photo study cards 7in. x 5in.--3 posters--1 stencil: energy game--1 stencil (6 copies): making food webs --8 worksheets (3 copies of each).

(Continued on next card)

K 150 This earth: the wonder of change (Kit)
Guidance Associates, 1973
1 kit various multi-media

Teacher's guide.
4-6 CONTENTS: 2 sound filmstrips--2 cassettes: 1 7/8ips.--1 silent filmstrip--6 photo study cards--1 earth calendar poster--2 full-color posters--8 copies of the booklet, Are the Continents drifting?--8 copies of the booklet, Making operational definitions--8 worksheets or instruction sheets (3 copies ea.)--4

(Continued on next card)

K 220 This earth: everything fits together (Card 2)

SUMMARY: Demonstrates that special partnerships occur throughout nature; animals and plant species depend closely on each other for food, shelter, reproduction; man too, lives in partnership with many life forms.

1 Animals--Habits and behavior 2 Nature study 3 Ecology 4 Adaption (Biology)

574

K 150 This earth: the wonder of change (Card 2)

stencils--1 roll of adding-machine tape.
SUMMARY: Discusses the way man changes the environment and nature's resistance to this kind of change.

1 Ecology 2 Geology 3 Man--Influence on nature

574

K 149 This earth: how life adapts (Kit)
Guidance Associates, 1973
1 kit various multi-media

Teacher's guide.
4-6 CONTENTS: 2 sound filmstrips--2 cassettes; 1 7/8ips.--2 silent filmstrips--10 photo study cards--1 game poster (2 copies)--1 poster--4 stencils--7 worksheets or instruction sheets (3 copies ea.).
SUMARY: Program examines the process of adaptation by tracing natural selection at work in the peppered moth species, ancient through modern horses. Considers man's widespread adaptation of as well as to environment.

1 Adaption (Biology) 2 Animals--Habits and behavior

574

K 309 Time and the environment (Kit)
U.S. Environmental Protection Agency, produced by Sensoria Motivation Systems, 1972
125fr. color 35mm. and cassette: 1 7/8 ips. single track 15min.

10-12 SUMMARY: Program describes the Environmental Agency and its efforts to address the priority environmental problems that exist here in the Rocky-Mountain Prairie Region.

1 Environmental policy--U.S. 2 Man--Influence of environment

301

MP 251 Time of man (Motion picture)
Holt, Rinehart and Winston, Inc., 1972
50min. sd. color 16mm.

Teacher's guide.

10-12 SUMMARY: Examines the relationship between twentieth century life and the environment, and stresses the importance of understanding and preserving the environment, which sustains man and all other forms of life.

1 Man--Influence on nature 2 Man--Influence of environment

573

S 305 Tissues and reproduction (Slides)
Imperial Film Company, n.d.
91 colored slides 2in. x 2in. in 2 carousels

10-12 CONTENTS: Reproduction-genetics--Chicken embryos--Animal tissue: group I-histology --Animal tissue: group II-histology--Bacteria.

1 Reproduction 2 Embryology 3 Biology 4 Bacteriology

574

MP 218 Time to begin (Motion picture)
Colonial Williamsburg distributed by McGraw Hill, 1972
29min. sd. color 16mm.

7-9 SUMMARY: By illustrating the ecological and aesthetic decay which is overtaking America, this film makes a fervent plea for the preservation of our natural beauty. It shows man's neglect and indifference to the countryside by roaming over littered roads, auto graveyards, and polluted air and water.

(Continued on next card)

K 29 The total environment (Kit)
Steck-Vaughn Company, 1972
3fs. color 35mm. approx. 46fr. ea.; 4 cassettes 1 7/8ips. single track; 8 pictures 14in. x 11in.

4-6 Teacher's guide; Student manual, The ABC of total environment; Filmstrip guide.
CONTENTS: Communication in the total environment--Using the ABCs of the total environment--You and the total environment.

(Continued on next card)

MP 218 Time to begin (Card 2)

The bad taste of society--epitomized in the constant barrage of chrome, plastic, and tinsel--is also uncovered. All of this is contrasted with scenes of countryside and metropolitan elegance.

1 Landscape protection 2 Man--Influence of environment 3 Pollution

301.

K 29 The total environment (Card 2)

SUMMARY: An action-oriented, multi-media study program designed to make students stop, look, think, and analyze helping students to understand that we all are very much a part of the total environment--and it is very much a part of us.

1 Ecology 2 Human ecology 3 Man--Influence of environment

301.3

MP 252 Tragedy of the commons (Motion picture)
King Screen Productions for Holt, Rinehart and Winston, 1971
23min. si. color 16mm.

10-12 Based on the article of the same title by Garrett Hardin.
SUMMARY: Deals with the distribution of resources, the clash of personal values, and the variety of possible solutions for the ecological problems that are facing America.

1 Ecology 2 Man--Influence of environment

301.3

73-712844

MP 250 Treehouse (Motion picture)
King Screen Productions for Holt, Rinehart and Winston, 1970
9min. sd. color 16mm.

Study guide.
7-9 SUMMARY: A profile of the relationship between man and natural beauty. The construction of new houses forces a young boy to part with his treehouse and the grassy field that surrounds it.

1 Human ecology 2 Man--Influence of environment 3 Conservation of natural resources

333.7

72-711548

FL 278 Transactions within the city (Motion picture)
Ealing Corp., 1969
4min. si. color super 8mm. (The changing city)

Loop film mounted in cartridge.
Film notes on cartridge case.
10-12 SUMMARY: Explains that most people come to a city to make some form of transaction. Shows people as they shop, do business, seek entertainment, and as they exchange news and information.

1 Cities and towns 2 Community life 3 Metropolitan areas

372.8

K 15 [illegible]ees (Kit)
Coronet Films, 1970
6fs. color 35mm. approx. 46fr. ea. and 6 cassettes: 1 7/8ips. dual track 10min.

Teacher's guide.
4-6 CONTENTS: Different kinds--Their structures --Flowers, fruits and seeds--How they grow--Their products--Their importance.
SUMMARY: Introduction to the study of trees. Differences, function of tree roots, stems and leaves etc. Also demonstrates the many comercial uses of lumber.

1 Conservation of natural resources 2 Forests and forestry 3 Lumber and Lumbering

582

K 12 Tree man: A first adventure in ecology (Kit)
Coronet Films, 1971
45fr. color 35mm. and cassette: 1 7/8ips. dual track; 18 captioned study prints 15in. x 12in.

Teacher's guide.
K-3 SUMMARY: Introduces young children to the subject of ecology--The interrelationships of living organisms and their environment.

1 Ecology 2 Adaptation (Biology) 3 Man --Influence of environment

574.5

K 147 The trouble with truth (Kit)
Guidance Associates, 1972
2fs. color 35mm. approx. 52fr. ea. and 1 cassette: 1 7/8ips. dual track (First things: Values)

Teacher's guide.
K-3 SUMMARY: Presents two stories in which young people are faced with decisions of whether or not to tell the truth.

1 Truthfulness and falsehood 2 Honesty 3 Human relations 4 Behavior

372.1

FS 195 True book biological science (Filmstrip)
Singer, Society for Visual Education, 1960
6fs. color 35mm. approx. 32fr. ea.

Teacher's guide.
Captioned filmstrips.
K-3 CONTENTS: Dinosaurs--Farm animals--Reptiles--Tropical fishes--Your body and you.
SUMMARY: Deals with the ecology and development of vertebrates from prehistoric to present times.

1 Dinosaurs 2 Domestic animals 2 Pets
4 Reptiles 5 Tropical fish 6 Anatomy

574

FS 192 True book science experiments (Filmstrip)
Singer, Society for Visual Education, 1960
6fs. color 35mm. approx. 32fr. ea.

Teacher's guide.
Captioned filmstrip.
K-3 CONTENTS: Plant experiments--Science experiments--More science experiments--Sounds we hear--Toys at work--Weather experiments.
SUMMARY: Simple, do-it-yourself experiments with ordinary objects demonstrate easily understood scientific facts.

1 Science--Experiments

507

FS 191 True book natural science (Filmstrip)
Singer, Society for Visual Education, 1960
6fs. color 35mm. approx. 31fr. ea.

Teacher's guide.
Captioned filmstrips.
K-3 CONTENTS: Animal babies--Animals of sea and shore--Birds we know--Insects--Plants we know--Trees.

1 Animals 2 Birds 3 Insects 4 Plants
5 Trees

574

MP 231 Turn off pollution (Motion picture)
Encyclopaedia Britannica Educational Corp., 1971
11min. sd. color 16mm.

Teacher's guide.
4-6 SUMMARY: Follows a project in which elementary school children take active steps to eliminate pollution from their community and in the process learn the major sources of pollution.

1 Pollution 2 Man--Influence of environment

614.7

73-712320

FS 190 True book physical science (Filmstrip)
Singer, Society for Visual Education, 1960
6fs. color 35mm. approx. 31fr. ea.

Teacher's guide.
Captioned filmstrips.
K-3 CONTENTS: Air around us--Deserts--Moon, sun, and stars--Oceans--Rocks and minerals--Seasons.

1 Air 2 Deserts 3 Solar system 4 Rocks
5 Seasons

K 76 Two cultures: case studies in social values (Kit) Warren Schloat Productions, Inc., 1972
4s. color 35mm; approx. 91fr. ea. and 4 cassettes: 1 7/8ips. dual track 2s. audible and inaudible

Teacher's guide.
10-12 CONTENTS: The impact of thought on American society--The impact of thought on Indian society: Hindu thought--The impact of tradition on American society--The impact of tradition on Indian society: Hindu culture.
SUMMARY: Program compares and contrasts three broad areas of life in India and the

(Continued on next card)

BEST COPY AVAILABLE

K 76 Two cultures: case studies in social values (Card 2)

United States: tradition, thought, alienation. Series examines aspects of each, first in the context of America life and then in the context of Indian.

1 Human relations 2 India--Social life and customs 3 Social sciences 4 Cultural relations 5 U.S.-- Social life and customs

301.15

T 320 Understanding water pollution (Tape recording)
3M Company, Wollensak Teaching Tapes, 1968
cassette: 1 7/8ips dual track 20min.

Teacher's guide.
Worksheets.
K-3 SUMMARY: Leads students to discover what water pollution is, where it comes from, how it affects our water supply and health; develops understanding of the processes and actions necessary to decrease water pollution.

1 Water--Pollution 2 Water--Purification

628.1

T 319 Understanding air pollution (Tape recording)
3M Company, Wollensak Teaching Tapes, 1958
cassette: 1 7/8ips dual track 20min.

Teacher's guide.
Worksheets.
K-3 SUMMARY: Students discover what air pollution is, where it comes from, how it affects our health, the extent of the problem, and the processes and actions necessary to control contamination of the air.

1 Air--Pollution 2 Air--Pollution--Physiological effects

628.5

MP 265 Urban ecology: recycling (Motion picture)
BFA Educational Media, 1973
min. sd. color 16mm.

7-9 SUMMARY: In his search for ways to dispose of his own wastes, man has followed the pattern of nature and learned to recycle water, paper, soil, glass, and a few metals.

1 Salvage (Waste, etc.) 2 Waste products 3 Ecology 4 Man--Influence of environment

658.5

K 217 Understanding the sea and ocean (Kit)
Singer, Society for Visual Education, 1970
kit of various multi-media.

Teacher's guides.
4-6 CONTENTS: 8 filmstrips: Study of oceans --Ocean basins--Characteristics of sea-water--Currents, waves, and tides--Life of the open seas--Life of the sea floor and shore--Birds of the ocean, its beaches and salt marshes--Work of the sea--3 cassettes: 1 7/8ips. single track 2s. ea.--2 sets study prints 8ea.: Large sea animals--Small animals of the sea and shore--22 transparencies: Oceanography, set 1 and 2.

1 Oceanography 2 Marine biology

FL 253 Urban features (Motion picture)
Ealing Corp., 1970
4min. sl. color super 8mm. (Picture dictionary of geographical terms)

Loop film mounted in cartridge.
Film notes on cartridge case.
7-9 SUMMARY: Identifies 35 features of an urban area, including urban and suburban neighborhoods; high rise office buildings; intersection; interchange; shopping center; railroad switching yard; docks; marina; and airport with terminal and runway.

1 Metropolitan areas 2 Urban renewal

K 55 Vision and environment: a world of color (Kit)
Educational Dimensions Corporation, 1971
3fs. color 35mm. approx. 47fr. ea. and 3 cassettes: 1 7/8ips. dual track

Teacher's guide.
K-3 CONTENTS: Pt. 1 Red, yellow, blue--Pt. 2 Green, orange, purple--Pt. 3 Black, white, gray, brown.
SUMMARY: Heightens the student's awareness of the world around him as well as the widely varied role that color plays in his daily life.

1 Color sense and sensation 2 Color--Psychology 3 Senses and sensation

152

75-739046

K 61 Vision and environment: A world of shapes (Kit) Educational Dimensions Corp., 1971
4fs. color 35mm. approx. 66fr. ea. and 4 cassettes: 1 7/8ips. dual track

Teacher's guide.
K-3 SUMMARY: Explores the everyday environment in search of shapes in the form of squares, circles, and triangles.

1 Form perception 2 Size and shape 3 Perception

152

76-739763

K 123 Volcanoes of America (Kit)
Educational Services, Inc., 1969
2fs. color 35mm. approx. 43fr. ea. and 2 phonodisc: 12in. 33 1/3rpm.

Teacher's guide.
7-9 CONTENTS: Volcanoes of America--A look at lava.

1 Geology 2 Volcanoes 3 Physical geography 4 Lava

551.2

MP 246 Wandering through winter (Motion picture)
MP 247 Xerox Education Company, 1970
50min. sd. color 16mm. 2 reels (We need each other)

Discussion guide.
SUMMARY: A leisurely, winding 20,000 mile trail that begins at the Silver Strand, just
10-12 below San Diego, Calif., finally brings the camera-and the viewer-to the extreme northeastern corner of the United States, above Caribou in Maine.

1 Ecology 2 Nature study 3 Winter

574

FL 213 Wapiti, American elk (Motion picture)
Troll Associates, 1970
4min. si. color super 8mm. (Hoofs, claws and antlers)

Loop film mounted in cartridge. Guide.
SUMMARY: Herds of American elk, named
4-6 "wapiti" by the Indians, come to high mountain valleys in the spring. Here, harems of cows, protected and ruled by bulls, give birth to tawny, white-spotted calves. In the fall, the bulls fight for leadership of the herd, then winter forces the elk to lower pastures where they graze together in great numbers.

1 Elk 2 Animals--Habits and behavior

391

SF 169 Washington school collection of rocks and minerals (Specimens) CENCO, Central Scientific Co., n.d.
40 large rock specimens

4-6 Demonstration collection of 20 rock-forming minerals and 20 typical rock types. Numbered to correspond with a keyed description on the inside of lid box.

1 Rocks 2 Mineralogy 3 Geology

543

K 172 Watch and wonder, primary science, level 1 (Kit) Holt, Rinehart and Winston, Inc., 1973
14fs. color 35mm. approx. 26fr. ea. and 14 cassettes: 1 7/8ips. dual track audible and inaudible.

K-3

Teacher's guide.
CONTENTS: Grouchy grumble and his shape machine--How big is big?--The day that color went away--Sounds all around--Touch--What are things like?--Changes--Wheels--My king-

(Continued on next card)

K 172 Watch and wonder, primary science, level 1 (Card 2)

dom for a ruler--My dog, my goat, and me--I wish I had an Elephant--A talk with the fishes--A tree for me--Unusual plants.
SUMMARY: Introduces, reinforces, and reviews basic concepts and processes of science.

1 Science--Study and teaching 2 Science--Experiments 3 Nature study

507

K 173 Watch and wonder, primary science, level 2 (Kit) Holt, Rinehart and Winston, Inc., 1973
14fs. color 35mm. approx. 26fr. ea. and 14 cassettes: 1 7/8ips. dual track audible and inaudible

K-3

Teacher's guide.
CONTENTS: Mr. Plumseed's farm--Birds and beaks--Fish--Watch where you're walking--Frogs and snakes--Everything's in order--Water in our world--Where does the rain go?

(Continued on next card)

K 173 Watch and wonder, primary science, level 2 (Card 2)

--My river--What's in the air?--Strings and things--Music makers--The wonder of seeing--What do you know about light?
SUMMARY: Introduces, reinforces, and reviews basic concepts and processes of science.

1 Science--Study and teaching 2 Science--Experiments 3 Nature study

507

K 174 Watch and wonder, primary science, level 3 (Kit) Holt, Rinehart and Winston, Inc., 1973
14fs. color 35mm. approx. 26fr. ea. and 14 cassettes: 1 7/8ips. dual track audible and inaudible.

K-3

Teacher's guide.
CONTENTS: Seeds on the move--The pear tree--Ferns--The bark of a tree--Rocks we use--The changing earth--Shaping the land--Whose earth is it?--Leave it to levers--

(Continued on next card)

K 174 Watch and wonder, primary science, level 3 (Card 2)

Timothy's wake-up machine--Who needs machines?--Friction fights back--The experiment --Kitchen chemistry.
SUMMARY: Introduces, reinforces, and reviews basic concepts and processes of science.

1 Science--Study and teaching 2 Science--Experiments 3 Nature study

507

MP 212 Water: a first film (Motion picture)
Film Associates of California, released by EFA, 1968
9min. sd. color 16mm.

With study guide.
K-3 SUMMARY: Shows that water, which covers most of the earth, is necessary for life, appears in many forms, and has many uses.

1 Water

372.3

K 130 Water pollution (Card 2)

and fuel--1 lb. alum--2 oz. parafin--2 oz. food coloring--2 medicine cups--40 plastic cups, 8 oz.--10 funnels--10 metal screens, fine--10 plastic spoons--1 pkg. filter paper --1 pyrex beaker.
SUMMARY: Presents the problem of water pollution as it relates to the total environment.

1 Water--Pollution

614

K 112 Water and air (Kit)
New York Times, Office of Educational Activities, 1967
53fr. b&w 35mm. and phonodisc: 12in. 33 1/3rpm.

With discussion manual and duplicating master.
4-6 SUMMARY: Illustrates the effect of drought and water pollution on people and crops. Describes the conversion of sea water to combat this problem and discusses the dangers of smog in the cities.

1 Pollution 2 Saline water conversion
3 Droughts 4 Water pollution

614

FIA 66-3600

K 73 Water pollution (Kit)
Warren Schloat, 1972
2fs. color 35mm. approx. 78fr. ea.; 2 cassettes; 1 7/8ips. dual track 2s. audible and inaudible

Teacher's guide.
CONTENTS: Fresh water; Salt water.
4-6 SUMMARY: Emphasizes the vital importance to all life of a large, unpolluted supply of both fresh and ocean water. It examines the vast potential of the ocean to feed the earth's fast-growing population and the importance of various productive areas of the ocean, including the salt marsh, the continental shelf and river estuaries.

1 Water--Pollution 2 Marine resources

614.77

K 130 Water pollution (Kit)
Pollution Control Education, distributed by McGraw-Hill, 1973
kit with various multi-media (Priority one environment)

4-6 Teacher's guide.
CONTENTS: 150 student booklets (30 copies of each 5 lessons)--8 Duplicating masters (investigations and 3-page unit test)--4 transpariences--film loop--cassette: 1 7/8ips. single track 1s.--solar still--sterno stove

(Continued on next card)

MP 213 Water pollution: a first film (Motion picture)
Norman Bean. Released by EFA Educational Media, 1971
8min. sd. color 16mm.

With study guide.
K-3 SUMMARY: Follows a stream from its origin to its end to reveal the many sources of water pollution.

1 Water--Pollution

614.77

75-712385

K 176 Water pollution detection outfit, model AM-21 (Kit) LaMotte Chemical Products Co., distributed by Ward's Natural Science, 1972
suitcase kit containing 14 different boxes of testin equipment for water pollution; 3 paperbacks

10-12

Teacher's guides and instruction manual.
CONTENTS: Paperbacks: Our environment battles water pollution--Investigating water problems--A water analysis manual--Testing apparatus for the determination of: Alka-

(Continued on next card)

K 176 Water pollution detection outfit, model AM-21 (Card 2)

linity--Ammonia--Calcium--Carbon dioxide--Chlorides--Chlorine--Chromium--Copper--Cyanide--Dissolved solids--Hardness-Iron--Magnesium--Nitrates--pH--Phosphates--Salinity--Sulfides--Water analysis manual--Pollution handbook.

1 Water--Pollution 2 Water--Analysis

614

K 177 Water pollution detection outfit, model AM-24 (Kit) LaMotte Chemical Products Co., distributed by Ward's Natural Science, 1972
suitcase kit containing 6 different boxes of testing equipment; 4 paperbacks

10-12

Teacher's guides.
CONTENTS: Paperbacks: Our environment battles water pollution--Investigating water problems--A study of water quality--A water analysis manual--Testing apparatus for the determination of: Chlorine--Iron--Chromium

(Continued on next card)

K 177 Water pollution detection outfit, model AM-24 (Card 2)

(chromate)--Copper--Cyanide--Zinc.
SUMMARY: Provides the materials for determining the levels of industrial pollutants.

1 Water--Pollution 2 Industrial--Pollution
3 Water--Analysis

614

K 152 Water testing kit (Kit)
Learning Resource Center, 1973
1 kit various pieces

Teacher information cards.

4-6

CONTENTS: Cards, instruction, for use with LRC water testing kit--Burner, alcohol--Chemical; Burner fuel, pint--Chemical; Calcium hydroxide, oz.--Chemical; Silver nitrate solution, 2 oz.--Container; Beaker, glass, 50 ml. --Container; Cup, 30 ml. (1 oz.), pkg. of 30

(Continued on next card)

K 152 Water testing kit (Card 2)

--Dropper, medicine, small-tip, pkg. of 15
--Paper; PH indicator, roll--Soap, standard solution, pint--Stand, burner support, metal.
SUMMARY: Students determine if water samples contain dissolved minerals, chlorine, acids or alkali. Hardness of local water can be tested, also name-brand detergents.

1 Water--Analysis

543

FS 201 Weather (Filmstrip)
Filmstrip House, 1956
4fs. color 35mm. approx. 35fr. ea.

Captioned filmstrips.

4-6 CONTENTS: Why does it rain?--Why do we have wind?--Why do we have warm and cold days?--Why do we have day and night?

1 Weather 2 Climate 3 Rain and rainfall 4 Winds

551.59

K 216 Weather (Kit)
Singer, Society for Visual Education, 1970
kit of various multi-media

Teacher's guides.

7-9 CONTENTS: 9 filmstrips: Air masses and weather fronts--Winds around the world--Humidity and how it affects us--How to forecast the weather--Moisture and precipitation in the air--Weather changes and their causes --New why does it rain, snow, hail, and sleet? --New why the seasons?--New why does the weather change?--New why does the wind blow?--3

(Continued on next card)

K 216 Weather (Card 2)

cassettes: 1 7/8ips. single track 2s. ea.-- 8 study prints: Familiar cloud forms--20 slides, 2in. x 2in., with guide in folder: Climate and clouds--2 innovation cassettes: Weather and climate--9 transparencies: Meteorology.

1 Weather 2 Meteorology

551.59

K 350 Web of living things (Kit)
Doubleday Multimedia, 1972
5fs. color 35mm. approx. fr. ea. and cassettes: 1 7/8ips.

7-9 CONTENTS: Discovering the many kinds of plants and animals--Discovering the ways of plants and animals--Investigating the conditions of life--Observing communities of living things--Observing nature's network

(Continued on next card)

K 350 Web of living things (Card 2)

SUMMARY: Develops sequentially the scientific concepts which are necessary to a clear understanding of current ecological problems.

1 Ecology 2 Adaptation (Biology) 3 Botany--Ecology

574

S 314 Western plant ecology (Slides)
Ward's Natural Science, n.d.
148 colored slides 2in. x 2in. in carousels

Index.

10-12 SUMMARY: Shows typical habitats, plant associations, and close-ups of some of the plant species in each of these life zones, Arizona, Colorado, and New Mexico.

1 Plants 2 Geographical distribution of animals and plants 3 Botany--Ecology

580

SP 167 Western rock and mineral collection (Specimen) CENCO, Central Scientific Co., n.d.
50 rocks and minerals specimens

4-6

Instruction manual: Scott's introduction to the study of rocks and minerals.
A collection of 50 rocks and minerals for the Western U.S.

1 Rocks 2 Mineralogy 3 Geology

543

MP 239 What are we doing to our world, part 1 (Motion picture) CBS Films. Released by McGraw-Hill Book Co., 1969
27min. sd. color 16mm. (The 21st century)

7-9

Teacher's guide.
SUMMARY: Points out ways of conserving our natural resources. Discusses air pollution, the population explosion, land usage, waste disposal, and insecticides.

1 Conservation of natural resources 2 Air--Pollution 3 Water--Pollution

333.7

72-701247

MP 240 What are we doing to our world, part 2 (Motion picture) CBS Films. Released by McGraw-Hill Book Co., 1969
25min. sd. color 16mm. (The 21st century)

7-9

Teacher's guide.
SUMMARY: Points out ways of conserving our natural resources. Defines ecology and studies the ecological problems of the Everglades, Aswan Dam, and Panama Canal.

1 Conservation of natural resources 2 Ecology 3 Panama Canal 4 Aswan Dam 5 Everglades

333.7

76-701248

K 143 What do you do about rules? (Kit)
Guidance Associates, 1972
2fs. color 35mm. approx. 54fr. ea. and 1 cassette: 1 7/8ips. dual track (First things: Values)

K-3

Teacher's guide.
SUMMARY: Story about Sam Wilson, schoolteacher who breaks a rule and what is the fair punishment for breaking the rule.

1 Human relations 2 Behavior 3 Values

301.15

K 117 What is science? (Kit)
Educational Activities, Inc., distributed by Kimbo Educational, 1968
50fr. color 35mm. and cassette: 1 7/8 ips. dual track

4-6

Teacher's guide.
SUMMARY: Helps children develop habits of critical thinking in problem solving and provides an entry into the exciting world of science.

1 Science--study and teaching 2 Thoughts and thinking

507

FL 299 What's in the air? (Motion picture)
Ealing Corp., 1970
4min. si. color super 8mm. (Urban ecology)

10-12

Loop film mounted in cartridge.
Film notes on cartridge case.
SUMMARY: Air is essential for almost all living things. But it can sustain life only if it remains pure and clean.

1 Air 2 Air--Pollution

533

MP 214 Which is my world? (Motion picture)
Grant Rohloff. Released by EFA Educational Media, 1971
10min. sd. color 16mm.

K-3 SUMMARY: Points out that greed is a major cause of environmental pollution. Explores what changes in life style are necessary for safe and pleasant survival.

1 Pollution 2 Man--Influence on nature.

614.7

70-711108

K 180 Who am I (Kit)
Scholastic Magazines, Inc., 1970
5fs. color 35mm. approx. 58fr. ea. and cassette: 1 7/8ips. single track 2s. (Kindle, unit 1)

K-3 Teacher's guide.
CONTENTS: The joy of being you--Nothing is something to do--People packages--All kinds of feelings--Do you believe in wishes?
SUMMARY: Helps the young student gain a better understanding of himself and his social environment. The concept of self.

1 Human relations 2 Behavior

301.15

K 11 Why am I afraid to tell you who I am? (Kit)
Argus Communications, 1972
2fs. color 35mm. 105fr. ea. and cassette 1 7/8ips. single track 2s. 20min.

10-12 SUMMARY: Explores basic psychological principles involved in interpersonal relationships and growth in self-awareness.

1 Love 2 Emotions 3 Friendship 4 Human relations

301.42

K 69 Why animals live where they do (Kit)
Random House Educational Media, 1973
3fs. color 35mm. 39fr. ea. and 3 cassettes: 1 7/8ips. dual track

K-3 Teacher's guide.
CONTENTS: Land animals--Ocean animals--Freshwater animals.
SUMMARY: Helps students grasp the ecological distribution of life. Shows how animals adapt to their special climatic environment.

1 Animals--Habits and behavior 2 Marine animals 3 Fresh-water animals

591

FS 155 Wild flowers of North America (Filmstrips)
Encyclopaedia Britannica Films Inc., 1968
10fs. color 35mm. approx. 44fr. ea.

4-6 Captioned filmstrip.
CONTENTS: Wild flowers of the Desert--Tundra--Alpine Meadow--Prairie--Forest--Meadow--Marsh--Swamp--Pond--Vacant lot.
SUMMARY: Photographs help define and explain the physical characteristics of a variety of habitats and how indigenous plants have adapted to living in special types of habitats, whether arctic tundra, deciduous forest, or southern swamp.

1 Wild flowers 2 Geographical distribution of animals and plants 3 Flowers

582

FL 337 Winter sea--ice camp, part 1 (Motion picture)
National Film Board of Canada, 1968
10min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs

919.8

FL 338 Winter sea--ice camp, part 2 (Motion picture)
National Film Board of Canada, 1968
22min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs
919.8

FL 339 Winter sea--ice camp, part 5 (Motion picture)
National Film Board of Canada, 1968
8min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs
919.8

FL 340 Winter sea--ice camp, part 6 (Motion picture)
National Film Board of Canada, 1968
10min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Traditional way of life of the Netsilik Eskimos.

1 Arctic regions 2 Eskimos 3 Eskimos--Social life and customs
919.8

K 146 You promised! (Kit)
Guidance Associates, 1972
2fs. color 35mm. approx. 54fr. ea. and 1 cassette: 1 7/8ips. dual track (First things: Values)

K-3 Teacher's guide.
SUMMARY: Presents two stories in which young people are faced with decisions of whether to keep promises or not.

1 Human relations 2 Behavior 3 Values
301.15

K 224 Young scientists investigate pollution (Kit)
Singer, Society for Visual Education, 1971
4fs. color 35mm. approx. 51fr. ea. and 2 cassettes: 1 7/8ips. single track 2s.

4-6 Teacher's guides.
CONTENTS: Smog and plant growth--Air pollution and lung tissue--Measuring water pollution--Fresh water from the sea.
SUMMARY: Presents an unusual approach to the study of atmospheric and water pollution.

1 Water--Pollution 2 Air--Pollution
507.24

FL 323 Younger infant, baboon (Motion picture)
National Science Foundation and the Ford Foundation, 1968
10min. sd. col. super 8mm. (Man: A course of study)

4-6 Loop film mounted in cartridge.
SUMMARY: Shows baboons from birth to four months.

1 Baboons 2 Monkeys 3 Animals--Habits and behavior
599.8

K 315 Zoo and wild animals (Kit) Singer, Society for Visual Education, 1970
kit of various multi-media

Teacher's guides.
CONTENTS: 10 filmstrips: Mrs. Cottontail and her springtime family--Mr. and Mrs. Robin and their springtime family--Mr. and Mrs. Beaver and their family--Mrs. Bear and her family--Mr. and Mrs. Mallard and their family--Mrs. Squirrel and her family--

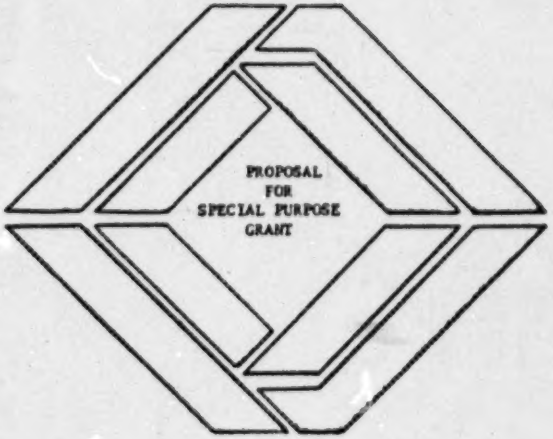
K-3

(Continued on next card)

K 315 Zoo and wild animals (Kit) (Card 2)

A visit to the zoo--Animal babies--Finding out how animals live--Finding out about mammals--2 sets study prints (8ea. set): Large animals of North America, group 1 and 2--2 sets study prints (8ea. set with cassettes: 1 7⅞ips single track 2s.: Zoo animals--Wild animals, group 1--Slide-set (20 slides): Common zoo animals

1 Zoo animals 2 Animals--Habits and behavior
3 Zoological gardens 591



under

TITLE II

ELEMENTARY AND SECONDARY EDUCATION ACT

(P.L. 89-10 as amended)

for

Fiscal Year 1973

(1972-73)

COLORADO DEPARTMENT OF EDUCATION
Colorado State Library
Library Development Services Unit
1362 Lincoln Street
Denver, CO 80203

CORRECTED COPY

APPLICATION DEADLINE: March 16, 1973

COLORADO STATE LIBRARY

TITLE II ESEA

SPECIAL PURPOSE GRANTS PROPOSAL

APPLICATION

Date March 12, 1973

Local Education Agency School District No. 50

Address 7200 Lowell Boulevard, Westminster, Colorado 80030

Person preparing proposal Alice Spengler / Virginia Way

Position Director IMC / Science Coordinator Telephone 428-3511 ex. 55

Proposed project title Education for Survival

"EFS" pronounced IFS

Project location District IMC via satellite ECO-MOM (Ecology Educational Media Mobile)

Proposed cost of project $20,000 plus District commitment

Number of students served by project 17,835 (public and non-public)

Number of teachers served by project 900 (public and non-public)

Project director Harold C. McKenney, Director of Instruction

Name and signature of chief school officer

Iver C. Ranum, Superintendent of Schools

* * * * * * * *

(One additional page may be inserted if space is needed.)

I. Background Information

a. Geographic Area to be served-- Urban, residental community. The boundaries of the School District and the City of Westminster are not contigious. The District borders Denver on the South then follows an irregular boundary on the east along Huron Street to the northern extremity at 96th Avenue. Sheridan Boulevard furnishes the western boundary. The bounderies enclose an area of six square miles providing: 17 elementary schools, 7 secondary schools, 3 non-public schools, 1 public library. Since there is very little high value property located within the District, school revenue must be raised by a high mill levy on the residental property.

b. Population Characteristics of project school or district--Population 50,000
U.S. 36 divides the District, North and South

1. income level Mean family income $11,238.00--Many two income families
Northern area $13,029.00/Southern area $9,199.00
Incomes below poverty level 3.9% of all families

2. educational level (persons 25 years old or older) Median 12.3
Northern area 73.7% have at least 4 years of high school
Southern area 48.3% have at least 4 years of high school

3. ethnic and cultural representation--Spanish surnamed 10.5% of population
Northern area 78.3% have at least 4 years of high school
Southern area 24.7% have at least 4 years of high school

c. Existing library media services

Twenty-four school centralized media centers providing a unified media program for students and teachers.

District level Instructional Materials Center provides centeralized purchasing and processing for all school media centers, all media formats; graphic and production facilities and a collection of resources available to supplement the school media centers. A Master Union File indicating location of all resources in the District provides an interlibrary loan data base.

Educational Media Mobile, a travel lab, providing a preview of materials service.

2. Educational needs to be met

To create in learners an understanding of man's interdependence with his environment: his physical, biological, ecological, social, and cultural interrelationships.

To examine some basic attitudes about our, and others values towards the above interrelationships.

To investigate local, regional, national, and global levels of environmental values conflicts, seeking conflict resolution.

To provide valid curriculum materials and resources so that as many students as possible can experience instruction in environmental control according to their levels of individual learning and conceptualization.

To stimulate learners through action-centered programs to be aware of how to actively participate to develop programs consistent with their values and levels of environment commitment.

3. General goals of project

To enrich District commitments to Environmental Education Programs K-12.
Developed 12, Pilots 5, Future 5. See Appendix No. 2.

To provide an Environmental Education Center to help to motivate K-12 learners, with emphasis for this project on K-6 learners, to be enthusiastic and interested enough to better understand and be sensitive to environmental issues: a Center capable of providing access to information, agencies, organizations, and other resources that will assist learners with the goal cited above.

To develop and refine with alternative teaching strategies those concepts that synthesize for the learner behavioral outcomes that are identified and measureable at the cognitive, affective, and psychomotor domains.

To operate in-service training sessions to help teachers utilize resources. To assist teachers to coordinate the components on the mobile satellite into a unified learning experience for students.

To provide units in the activity orientated "hands on" mode.

To provide unique opportunities to promote environmental awareness in the total community.

To utilize the multimedia systems approach for the inquiry learning method.

To provide a mode of field testing the curriculum components.

4. Specific objectives related to need

To provide a curriculum design of environmental studies developed in scope and sequence which will provide a background of basic awareness of the symbiotic relationship of all living systems, their interdependence and of man's interaction with various cultural and technological settings at the local, regional, national, and global levels.

To promote the development of values and attitudes towards these problems and provide action-centered programs of a wide range and variety such as: field trips, creation of outdoor trails, etc.

5. Correlation with general educational plan "EVS" MODEL (Education for Survi

6. Exemplary and innovative nature of project ECOLOGY--EDUCATIONAL MEDIA MOBILE

ECO-EMM: A mobile learning unit providing transportability of resource materials to all schools on a regular and rotating basis and be on site at local field study areas. The design will provide a scope and sequence designation of Environmental Education Program for all students and teachers. The staffing pattern will provide the specialists to the teachers and learners. The mobility will provide specialized services, multiple resources, and teaching equipment that may be extended and shared throughout the total school system during the school year and on location at the Westminster Public Library in the summer time.

7. Project specifics

a. Physical quarters (dimensions, seating capacity, etc.) Utilizing the Educational Media Mobile, a modified standard school bus adapted to serve as a traveling classroom, custom built including shelving, work counters, seating, projection screen, carpeting, butane gas heat and electrical power sources. All types of audiovisual equipment are provided with a district commitment to add micro-projection equipment.

b. Number of items in present collection

1. print 0

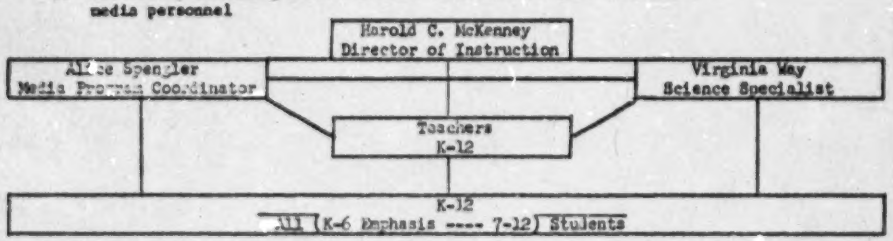
2. audiovisual 1,120

As the Project is based on the district level concept, just the district level IMC collection is reported here. School level collections do provide ample materials to support the Project idea and 1973 orders include acquisition of environmental education materials.

BEST COPY AVAILABLE

TEAM OF CORE PERSONNEL

c. Personnel, including amount of time involved and qualifications of media personnel



The "TEAM" is defined as an arrangement where key staff members, namely, the Director, Media Program Coordinator, and Science Specialist with School Media Personnel, and Science Liaison Teaching Personnel and Teachers cooperatively plan and provide appropriate instructional units for Students.

Media Program Coordinator MA + 45 (Library science, Audiovisual and Education)

d. Selection policy for this project
Criteria for selection is based on the District's Selection Policy.

The Majority of recommendations for purchase will be gleaned from suggestions submitted by elementary school teachers, and will be coordinated by the science liaison teacher of each school.

Multimedia systems approach will be utilized.

The material will be controlled to grade-level readability and visual literacy.

Activity orientated materials providing "hands on" experience for the learner will have priority status.

e. General description of resources to be acquired, including academic area(s) to be enriched

Multimedia systems approach

Academic areas include resources in science--personal environment--man's interrelation with environment--man's alteration of environment.

I Natural Environment--Animal and Plant
II Man-made Environment
III The Problem: Technological Environment

The area of Environmental Science lends itself to acquisition of multimedia materials applicable to all curriculum programs--Art, Social Studies, Vocational Education, Reading, Mathematics, inclusive of all grade levels, with emphasis on K-6.

f. Organization of resources for use

The coordinated components will be organized into unified learning experience kits relative to curriculum outlines. The program of acquisitions will be via the district level service of centralized purchasing and processing. This includes providing classification, cataloging and processing. A catalog of the resources available via the ECO-EDC will be reproduced in multiples for dissemination and information retrieval via the personnel of each school media center.

g. Plan for promoting learner use of resources

In-service for teaching personnel will be conducted by the Science Coordinator as well as identified auxiliary personnel. Other resources available through local, regional, state, and national sources will be utilized. School-cooperative courses for college credit will be included.

8. Summary of planning process

Environmental Steering Committee Needs Assessment January 6-12, 1973. See Appendix for survey summary No. 1

The evaluation of the Need was reviewed by Directors, Coordinators and Principals.

The configuration of the Project idea was evolved by District Level Administrative Personnel. The Plan was submitted to Principals, Public and Non-Public K-12 for final consideration.

A consensus approval by Principals to proceed with the Project Proposal was received with enthusiasm as the impact value at the district level would be greater than would be realized with a single school level project.

The Science Liaison Teacher/s in each school served in an advisory capacity.

Media Personnel coordinated the school level efforts of planning for and selection of materials.

The ESEA II Basic Grant is designed to complement the Special Purpose Grant.

ESEA II Basic Grant Advisory Committee evaluation of the project proposals.

9. Activities designed to implement project objectives

Direct correlation with science and social studies and integration with other curriculum program areas.

Future development of field studies.

Future development of resident environmental study centers.

See Appendix for activities staged as District Commitments No. 2

10. Budget request including brief justification

ESEA II	Special Purpose Grant	$20,000.00	
ESEA II	Basic Entitlement	17,025.00	TOTAL ESTIMATE
District Commitment		50,000.00	$87,000.00

Personnel (FTE of Cadre)
ECO-MOBILE operation and maintenance
Purchasing and processing

Office and processing supplies
Micro-projection equipment
Audiovisual Equipment
Overhead Expenses

Justification

Funds are needed in sufficient amount to make a program of resources impact on the student.
A multiplicity of resources must be provided to implement the inquiry approach. As we implement our selection procedures, recommendations for materials will be gleaned from teachers. All teachers will expect items of their choice to be available on board the travel laboratory.

11. Plan for continuing level of media services after ESEA II funding ends

It is District policy to retain, sustain, and support a Pilot idea that has evidenced success. The validity will be determined by the evaluation as projected in item 12 of this Proposal.

12. Plan for modifying and evaluating the project

MODIFICATION: basing on the results of the evaluation premise stated below and hereby assuming the venture was successful in providing resources for the Education for Survival Program, the "EFS" are no longer EFS, but realities, we would wish to extend the materials collections, with duplication and expansion of acquisitions to be housed in each of the school media centers. Refine, expand other supporting activities in Environmental Education and co-curriculum areas, identify any gaps in the program resources and make recommendations to fill those gaps.

EVALUATION:

Formative evaluation of student behavior:
- Manifestation of favorable attitudes towards environmental issues
- Categories of student behavior related to carrying out the process of science inquiry
- Student orientation to the relationships of science to other aspects of culture and the individual
- Knowledge and comprehension of subject matter that the student obtains exclusively from the multimedia resources provided
- Student interest in societal interactions
- Resolving value conflicts

ECO-Mobile effectiveness
- Decide the degree of success of the components provided in the travel-lab as a contribution to student attitudes.

The evaluation program to be accomplished via
- Environmental Education Steering Committee, Science and Social Studies Curriculum Committees, Science Liaisons at each school and a select cadre of Resource Specialists.
- questionnaires to get feed-back on success of materials, their use, implementation, grade level recommendations, and further recommendations.
- making obtrusive and unobtrusive assessment of affective behaviors such as:
  - formation of ecology clubs
  - identification of action-centered ecology projects
  - interview of teachers as to their observations of student behavior modification.
- informal interviews with students and parents to elicit their reactions and obtain further recommendations regarding the program.
- an opinionaire to teachers which evaluates effectiveness of in-service courses.
- considering inputs of information from all programs, not just those involved in curricula, such as Health Services, Food Services, Building Maintainance, and Special Services.

SPECIAL GRANTS PROPOSAL EVALUATION

Directions: Use one sheet for <u>each</u> proposal. Based on a scale of 1 (least desirable) to 5 (most desirable), indicate your estimation of the merit of this project on each of the following criteria by placing a number from 1 to 5 on the line to the right of each question.

1. Does written project plan include all required components: 1) needs assessment, 2) purpose, 3) costs, 4) assurances of school level and district-level support of project, and 5) demonstration of local initiative in terms of local ability to continue support? 5
2. Does the number of students and teachers served by this project justify its cost? 5
3. Are the staffing and facilities adequate to achieve the project objectives? 5
4. How significant will this project be in terms of contributions to school curriculum, school library/media development, increased library/media services to students and teachers, etc.? 5
5. What is the potential for duplication of this project in other areas of the State? 5
6. To what extent does this project involve non-public schools and/or public libraries? 5
7. What is the likelihood that this project will be continued under local funds? 5
8. Would this project provide an exciting learning experience for people visiting the project site? 5
9. Could this project be recorded for a tape/slide, motion picture, or other audiovisual presentation for dissemination? 5

APPENDIX NO. 1

RESULTS OF SURVEY

In January 1973, The Environmental Education Steering Committee conducted an extensive survey. The major results which have implications for curriculum development are summarized below.

Needs identified for:

Materials, (multimedia type, films, kits, books, etc.)

Development of courses of study or adoption of prepared courses that would meet the need, especially at elementary levels

Provision of a variety of in-service courses and programs for teachers

Identification and utilization of resource staff

Establishment of a resident outdoor environmental education center

Responses to the survey also identified forty-two teachers willing to work in developing environmental education in our district.

APPENDIX NO. 2

MODEL TO SHOW RELATIONSHIP TO DISTRICT COMMITMENT

	DEVELOPED PROGRAMS	PROGRAMS IN PILOT PHASE	K-12 PROGRAMS PROPOSED FOR FUTURE DEVELOPMENT
ELEMENTARY	Two local field study areas "Man-A Course of Study" Identified ecology units developed at various schools	SCIS Life Science 2nd year resident Environmental Education Program Harris Park Elementary	Develop more local field study areas. (Ele.-Sec.) Scope and sequence programs of in-servic related to environmental education. (Ele.)
JUNIOR HIGH	Life Science--all 7th grades Habitat and Resources 7-S.S.U.* Cities and the Environment 7-S.S.U. Man and His Environment 8-S.S.U. World Urbanization 8-S.S.U.	Hodgkins Science Pilot 8-9 (Ecology, Environmental Pollution, Survival biology) People and Technology S.S.U--7-8th Grades	District wide development of a resident program (Ele.-Sec.) "Science and Society" course for Ranum High School Implement new 8-9 grade science programs fall 1974. (see Pilot)
HIGH SCHOOL	"Science and Society" at Westminster High School Biological Science curriculum study courses green, yellow, and blue versions at the High Schools American Social Problems--11th grade Ranum High School IIS Biology Westminster High School	"Genetics and Population" Ranum High School	Participant in the University of Colorado Environmental Education Act Proposal, 1973
K-12	This year we established an Environmental Education Steering Committee composed of Administrators, Teachers, Parents and Students. (October 1972)		

* Social Studies Unit

APPENDIX NO. 1

[illegible]EA II FY 1973

[illegible] TABLE

February	Project planning -- Environmental Education
February and March	Materials--Preview and evaluation
March 14	File with Colorado State Library Basic and Special Purpose Grant Proposals as coordinate projects
Week of March 19	Anticipate a report concerning Project status from Colorado State Library
April	Finalize recommendations into selections
	Prepare requisitions and purchase orders to encumber funds
May 1	Complete encumberance of entitlements
Summer	Receive and process materials
	"Package" learning components via scope and sequence
August	ECO-EDU -- Schedule planning
September 4	Target -- ECO-EDU operational

PROJECT APPLICATION

for

BASIC GRANTS

for

SCHOOL LIBRARY RESOURCES & INSTRUCTIONAL MATERIALS

under

TITLE II

ELEMENTARY & SECONDARY EDUCATION ACT

for

Fiscal Year 1973

(1972-1973)

Excerpt from the BASIC GRANT PROJECT. Approved and funded April 9, 1973.

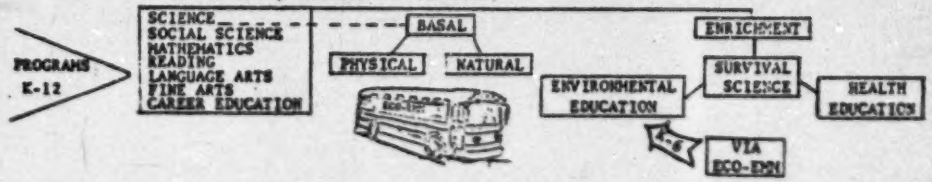
COLORADO DEPARTMENT OF EDUCATION
Colorado State Library
Library Development Services Unit
1362 Lincoln Street
Denver, CO 80203

PREFACE:

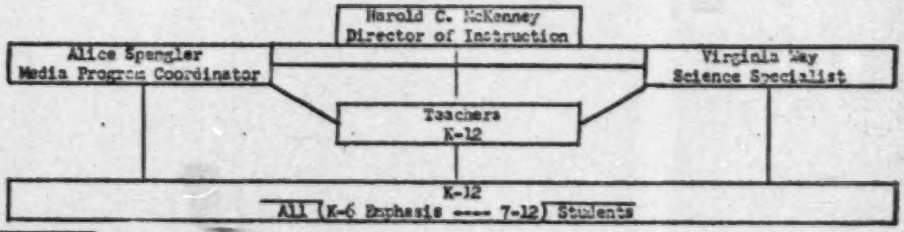
The basic ESEA II entitlement is designed as a Mini-Education for Survival "EFS" Project. The ECO-EDM (Ecological Educational Media Mobile) Program will be designed and developed on the same premise and with many components of the Special Purpose Project Proposal a copy of which is attached.

ABSTRACT OF PROPOSAL FOR SPECIAL PURPOSE GRANT

"EFS" MODEL (Education for Survival)



TEAM OF CORE PERSONNEL



BASIC GRANTS PROJECT

3. Describe the instructional needs to be served through the use of ESEA II funds.

To create in learners an understanding of man's interdependence with his environment: his physical, biological, ecological, social, and cultural interrelationships.

To examine some basic attitudes about our, and others values towards the above interrelationships.

To investigate local, regional, national, and global levels of environmental values conflicts, seeking conflict resolution.

To provide valid curriculum materials and resources so that as many students as possible can experience instruction in environmental control according to their levels of individual learning and conceptualization.

To stimulate learners through action-centered programs to be aware of how to actively participate to develop programs consistent with their values and levels of environmental commitment.

4. In what way or ways were these needs determined?

Surveys, testing, teacher recommendations, standards, observation, etc.

In January 1973, the Environmental Education Steering Committee conducted an extensive survey. The major results which have implications for curriculum development are summarized below:

Needs identified for:

RESULTS OF SURVEY

- Materials, (multimedia type, films, kits, books, etc.)
- Development of courses of study or adoption of prepared courses that would meet the need, especially at elementary levels
- Provision of a variety of in-service courses and programs for teachers
- Identification and utilization of resource staff
- Establishment of a resident outdoor environmental education center

5. Members of ESEA II Advisory Committee. *(List person's name; title if district level position or name of school if school-level position.)

* If such a position does not exist in your district put N.A. in blank.

a. District-level administration or Federal Grants Coordinator

Harold C. McKenney, Director of Instruction

b. School-level administration

elementary Thomas C. Harris, Principal, Harris Park

Jr. or middle George D. Schweigert, Principal, Shaw Heights Jr. High

high Louis Stueckrath, Assistant Principal, Westminster High School

c. District-level library/media supervision

Alice Spengler, Director of Instructional Materials Center

d. School-level library/media personnel

elementary Virginia Fox, Media Clerk, Gregory Hill

jr. or middle Bette Tellier, Media Specialist, Carpenter Jr. High

high Frances Morris, Media Specialist, Ranum High

e. Teachers

elementary Albert Lewis, Grade 6, Harris Park

jr. or middle Kathryn Weathers, Grade 7 Biology, Shaw School

high Edwin Nelson, Biology, Ranum High

f. Public library

Jean Cohen, Librarian, Westminster Public Library

g. Non-public schools

Cynthia Haws, Principal Holy Trinity

6. Name the person responsible for implementing this project.

Alice Spengler, Director IMC Virginia Way, Science Coordinator
Administration Building

7. Describe how non-public schools are represented in the needs assessment and implementation of this project.

Refer to item 4 this proposal. The survey results were shared with the non-public school personnel. They concurred that the same ideas were expressed in their schools and encouraged us to develop the project idea. Teachers in the three schools are actively engaged in submitting material suggestions to implement the Education for Survival "EFS" project.

8. Describe how non-public school students and teachers will share materials from this project.

All teachers and students will have total access to all materials acquired through this project.

9. Selection policy: (Check appropriate blank.)

___ a. Our district adopted the sample selection policy appended to the ESEA II Guidelines and this action has been approved by our Board of Education.

_X_ b. Our district's selection policy is attached to this form; it has been approved by our Board of Education.

10. Reconsideration policy: (Check appropriate blank.)

___ a. Our district adopted the sample reconsideration policy appended to the ESEA II Guidelines and this action has been approved by our Board of Education.

_X_ b. Our district's reconsideration policy is attached to this form; it has been approved by our Board of Education.

11. Indicate where the central record or inventory files are maintained for the district.

District Level Instructional Material Center Master Union File of all District Holdings

BEST COPY AVAILABLE

SCHOOL DISTRICT NO. 50
INSTRUCTIONAL MATERIALS CENTER

Education For Survival

E.S.E.A. TITLE II PROJECTS FY73

MATERIALS UTILIZATION SURVEY

Please take a few moments to complete the following information so that we may evaluate the usefulness of the materials you have used. Thank you for your time.

1 Title _____ ID No. _____ Format _____

2 Teacher _____ School _____

3 Grade Level (circle one) K - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12

4 Correlated with _____ content area

5 Correlated with _____ unit

6 Materials Analysis: (circle the number of your choice) HIGH - - - - - - LOW

7 Authenticity . . . . . 1 - 2 - 3 - 4 - 5

8 Appropriateness . . . . . 1 - 2 - 3 - 4 - 5

9 Interest-level . . . . . 1 - 2 - 3 - 4 - 5

10 Physical characteristics . . . . . 1 - 2 - 3 - 4 - 5

11 School Media Center collection potential . . . . . 1 - 2 - 3 - 4 - 5

12 District Level Instructional Materials Center collection potential . . . . . 1 - 2 - 3 - 4 - 5

13 Overall rating . . . . . 1 - 2 - 3 - 4 - 5

14 Project Evaluation:

15 Development of favorable attitudes toward environmental issues were manifested . . . . . 1 - 2 - 3 - 4 - 5

16 Students obtained knowledge and comprehension from the multimedia resources provided . . . . 1 - 2 - 3 - 4 - 5

17 ECO-Mobile Effectiveness: . . . . . 1 - 2 - 3 - 4 - 5

18 Remarks: _____